



# The HEMIST AND DRUGGIST

or RETAILER - WHOLESALE - MANUFACTURER

Established 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

356  
ENLI

JUNE 3, 1944

Annual Subscription (with  
Diary) 25/- Single copies 6d.

## *Ascabiol' for Pediculosis Capitis*

TRADE  
MARK

# 'ASCABIOL'

BRAND

*benzyl benzoate emulsion*

It has now been established that 'ASCABIOL' is effective in the treatment not only of scabies but of infestation with pediculosis capitis (the common head louse).

The new formula presents benzyl benzoate in the form of an emulsion which not only destroys lice but dissolves the cement by which nits adhere to the hairs. The nits can therefore be removed by simple washing instead of the painstaking use of the small-tooth-comb.

The greatly increased demand for this product has made possible substantial price reductions which come into operation to the medical profession and the general public on May 1st. Retail pharmacists will be supplied at the new prices as from April 3rd.

### NEW PRICES

4 ozs. bottle (13 to the dozen) - 3/0d.  
(plus 4d. Purchase Tax)

80 ozs. bottle 42/0d.

(plus 4/8d. Purchase Tax)  
(subject to the usual discounts.)



Manufactured by  
**MAY & BAKER LTD.**

Distributors

**PHARMACEUTICAL SPECIALITIES (MAY & BAKER) LTD. DAGENHAM**

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# TAKA-DIASTASE

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●

**P**ARKE, DAVIS & CO. wish to announce that they now have supplies of Taka-Diastase, and that the following products are available:—

**Taka-Diastase Tablets  $2\frac{1}{2}$  grains**

**Taka-Diastase & Pepsin Compound Tablets**

**Taka-Diastase, Pepsin & Pancreatin Tablets  
(C.C.T. 296)**

*Each of the above tablets is supplied in bottles of 25 and 100.*

**Taka-Diastase Sedative Elixir (No. 198)**

*In bottles of 4 and 16 fluid ounces.*

**Taka-Diastase Liquid**

*In bottles of 4 and 16 fluid ounces.*

**Takazyma**

*In jars containing approximately 2 ounces.*

●

**PARKE, DAVIS & CO.**  
**50 Beak Street, London, W.1**

*Inc. U.S.A., Liability Ltd.*





# how 'Elasto'—It Sells on Sight!

It's advertised as a Chemist's Line

# Elasto

REGISTERED

## The Wonder Tablet

## Read What Users of 'Elasto' Say:—

(Original letters have been seen by a representative of "The Chemist and Druggist")

### Varicose Veins

As a sufferer of varicose veins, I must state that before using 'Elasto' I was tortured with tired and aching legs. After taking a month's supply of 'Elasto' I remark with emphasis that the feeling of tiredness and aching has vanished. To all sufferers of varicose veins I certainly recommend 'Elasto'—they are a boon.

AP 1180.

— R. P.

mediate relief, and, although I was relieved of the pains and inconvenience, I have never ceased to take them regularly, as I have found them to act as a tonic as well, giving me energy that I previously lacked. I have recommended them to many others since.

AT 1108.

— F. T.

### Varicose Ulcers

"I have great pleasure in writing to say my legs are quite better and I cannot praise your 'Elasto' enough. I had suffered agonies with varicose ulcers; in fact I thought I should never get them better, but, thanks to 'Elasto,' my legs are completely cured."

AH 1263.

— E. H.

### Rheumatism

"I may say that I have found 'Elasto' a wonderful help. For years I suffered with rheumatism in feet and legs, and at times found it difficult to keep about. 'Elasto,' however, afforded me im-

THESE generous acknowledgements are an indication of the solid goodwill behind Elasto. Thousands of users, all over the country, are daily telling their friends of similar experiences with this fine remedy.

**Recommend 'Elasto'—and a satisfied customer will recommend You!**

A SOUND LINE  
A GENEROUS PROFIT

Retail Price 5/- per pkt.  
\* Including purchase tax.

Wholesale 42/- per doz.  
\* Including purchase tax.

A FEW SHOWCARDS STILL AVAILABLE

**PATA**

**The NEW ERA TREATMENT CO., LTD.**

DEPT. R

RECIL HOUSE, HOLBORN VIADUCT, LONDON, E.C.1

**URGENT!**

**URGENT!!**

**URGENT!!!**

Empty Ribena Bottles are wanted desperately. Please return every one you can lay hands on—through the usual channels.

We all sympathise with the transport people in their gigantic tasks, but as the situation eases, your “returned empties” will be accepted again.

Without these returned empties, Ribena Black-currant Syrup will have to be denied to many in urgent need of its vitamin C.

Please do all you can to help.

**THE POSITION IS CRITICAL**

H. W. Carter & Co. Ltd.

The Old Refinery,

Bristol, 2.



Important because of its  
almost unlimited application..



## in widely differing conditions, including Gynæcology

Collosol Iodine is a loose colloidal compound capable of administration by either the oral, subcutaneous or intravenous route without fear of a sudden and immediate liberation of free iodine.

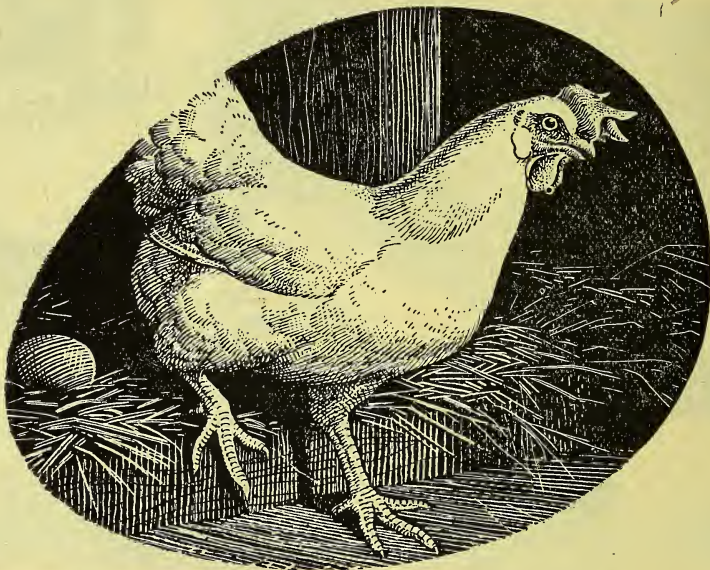
It is a thoroughly established therapeutic agent of pronounced value in the treatment of such widely differing

conditions as rheumatism, enlarged glands and goitre, actinomycosis, iodine deficiency, the pneumonias, venereal disease, and has wide application in gynæcology.

In the form of oil Collosol Iodine affords the most effective method of securing deep penetration of the element in a wide range of indications.

*Crookes'*  
**COLLOSOL IODINE**

# Poultry breeders report biggest egg yields from **CONDITIONED** birds



Striking evidence of the value of StockSense Concentrate Poultry Conditioner has come from leading poultry breeders who have carried out prolonged tests. Full details of the results, with name and addresses of the breeders concerned are published in the StockSense advertisements to poultry keepers.

StockSense promotes higher egg yields in an entirely *natural* way. Given daily in the mash, it helps birds to maintain vigorous condition, even on wartime rations. That is why the sales of StockSense are steadily increasing everywhere. See that your supplies are adequate to meet the growing demand. In drums 7½d., 1/6, and 4/-. Made by Bob Martin Ltd., Southport, Lancs.

## **STOCK SENSE**

### **CONCENTRATE POULTRY CONDITIONER**

**PATA**



Established 1878.

**Labels-  
Cartons-  
Envelopes-**

**& EVERY DESCRIPTION  
OF MEDICAL PRINTING**

**ALF. HARRISON & SONS**  
*Chemists' Printers*  
**BURLEY ROAD, LEEDS, 4.**

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## A REVOLUTIONARY DEVELOPMENT IN INTRANASAL SULPHONAMIDE THERAPY

# 'SULFEX'

'Sulfex' \* combines, for the first time, in a single chemically stable preparation the potent bacteriostatic action of 'Mickraform' \* sulphathiazole (5%) and the effective vasoconstriction of 'Paredrinex' \* (1%). The minute crystals of 'Mickraform' sulphathiazole ensure an enhanced therapeutic effect and a uniform coating over infected areas. 'Paredrinex' exerts a rapid, complete and prolonged shrinkage of the nasal mucosa, thus achieving maximum ventilation and drainage. Indicated in acute nasal and sinus conditions and sore throat.

*In 1-oz. bottles with separate dropper, 4/6 + 7d. Purchase Tax.  
Trade price per dozen, 40/6 + 6/9 P.T.*

**MENLEY & JAMES LTD., 123, COLDHARBOUR LANE, LONDON, S.E. 5**

For Smith, Kline & French Laboratories, owners of trade marks \*

PST3





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**MERSALYL B.D.H.**

**M**ERSALYL B.D.H. complies with the specification for Mersalyl B.P.

Mersalyl B.D.H. is a diuretic of high activity and low toxicity; it is indicated in the treatment of œdematous conditions, particularly those complicating cardiac disorders. Modes of issue: in ampoules of 1 c.c. and 2 c.c. of a 10 per cent. solution for intravenous or intramuscular injection (Injection of Mersalyl B.P.) and in the form of tablets and suppositories. Mersalyl B.D.H. is being advertised to the medical profession, and pharmacists will be well advised to keep an adequate stock in readiness for all demands.

## PRICES

For parenteral administration.

Box of		6 x 1 C.C. ampoules		Wholesale per doz.		40/- Tax 6/8 per doz.		Retail including tax		5/7	
"	"	12 x 1 C.C.	"	"	"	72/-	" 12/-	"	"	"	" 10/-
"	"	6 x 2 C.C.	"	"	"	48/-	" 8/-	"	"	"	" 6/8
"	"	12 x 2 C.C.	"	"	"	88/-	" 14/8	"	"	"	" 12/3

For rectal administration.

Suppositories containing 0.4 grm. Box of 6 Wholesale per doz. 58/- Tax 9/8 per doz. Retail including tax 8/1

For oral administration.

Tablets containing 0.08 grm.      For oral administration.  
Bottle of 20 Wholesale per doz. 40/-      Tax 6/8 per doz.      Retail including tax 5/7

THE BRITISH DRUG HOUSES LTD. LONDON N.1



The Name the  
public associates  
with Quality  
after 32 years of  
trial



UNITED CHEMISTS ASSOCIATION LIMITED  
UCAL WORKS, CHELTENHAM

# 'SUPER SHAVE' for 'Super' Sales

*and for the  
perfect BRUSHLESS  
shave with  
after-shaving  
freshness!*



RETAILS AT

**1/10 4 oz. Jar**

*Terms on application*

LONDON PHARMACEUTICAL LABORATORIES, LTD. 24 THORNSETT ROAD, LONDON, S.W.18

'SUPER SHAVE,' the last word in brushless shaving creams is fast becoming first favourite. . . . Dispense and recommend 'SUPER SHAVE' and see how it speeds up sales as well as speeding up shaving.

'SUPER SHAVE' represents SUPER VALUE plus QUALITY to merit your confident recommendation. Stock it NOW for steady, satisfactory sale.

BRUSHLESS

# SUPER SHAVE

SOAPLESS

## FLORAL COMPOUNDS AND BASES

Manufacturers know the first and greatest attraction of any cosmetic is the perfume.

An intriguing aroma of fine quality is more convincing than any sales talk, and puts your beauty preparations right in the sales front.

We can supply a selected range of perfume compounds. Particularly attractive is

## PENHALIGON 7

which has that fashionable elusive note so much in demand.

Send for price list (ld.) and sample of perfume required.

## PENHALIGON'S LTD.

*Manufacturing Perfumers*

**25 Bury Street, St. James's, S.W.1**

*By Royal Appointment.*

*Established 1873.*



*If it's*

## PREEMO it's good

When making up BEAUTY and TOILET PREPARATIONS, PERFUMES, COSMETICS, etc., a really good PERFUME is essential.

PREEMO PERFUME ESSENCES are really good and highly concentrated with the true scent of the NATURAL flower.

Chemists all over the country are using PREEMO PRODUCTS, ARE YOU? — not, a trial will convince you.

EMPTY BOTTLES and JARS in various sizes.

**PREEMO & SILKS Dept. C.D.**

**330 KILBURN HIGH ROAD, LONDON, N.W.**

*Telephone: Maida Vale 3234*



## HOW TO RECOGNISE

### "AIR SPUN"

COTY "Air Spun" is only genuine if presented in one of the three packs illustrated (1). Any other form of packing contains a black market product. Genuine Coty "Air Spun" is never sold loose.

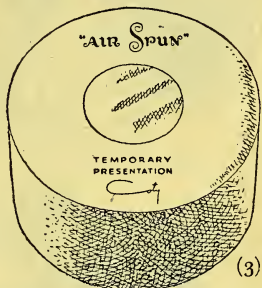
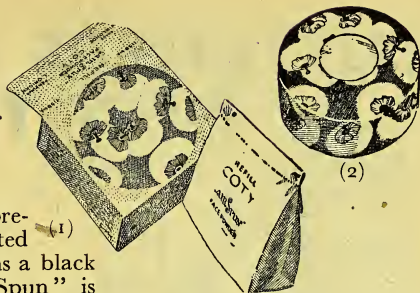
#### WHY THREE DIFFERENT PACKS?

These three packs are the result of the war-time economies which have been compelled to introduce during the past two years owing to shortage of labour and material. As soon as stocks of (1) and (2) are exhausted, there will only be one Coty "Air Spun" War Pack on the market — (3).

#### RETAIL PRICES OF COTY "AIR SPUN"

	Including Tax		Including Tax
(1) Refill of "Air Spun"	2/3	(3) New War Pack with	
(2) War Pack "Powder Puff" design	- - 2/6	plain cream background	
		made in two sizes 2/6 & 4/9	

Protected by the P.A.T.A.



COTY (ENGLAND) LTD., 41 HIGH STREET, LEIGHTON BUZZARD. TELEPHONE: LEIGHTON BUZZARD 2383 258

## If there's delay

in supplying all your orders for Mercolized Wax, Clymol Berries for Obesity and the rest of our lines, don't blame us—Blame the War.

But we will soon be back in full production, so please continue to send your enquiries to Leighton Road.

## DEARBORN (1923) LTD.

7 Leighton Road, Kentish Town, London, N.W.5

# CUSTOMERS CLAMOUR! MEET THE DEMAND



## BEST WHOLESALE STOCK BRICCAS FINE CHEMICALS, PERFUMES AND LABELS.

BRADFORD: T. Holdsworth & Co.

LAUNCESTON: S. Stout, Ltd.

LIVERPOOL: H. E. Jarvis & Co., Ltd.,

The Hairdressers Toilet Co.

LONDON: R. Hovenden & Sons, Ltd.

MANCHESTER: Watts Bros., Ltd.

NEWCASTLE-ON-TYNE:

S. & E. Summerfield.

Ison Bros. (Merchants), Ltd.

Summerfield & Nemeth.

NORWICH: Roworth Bros., Ltd.

PLYMOUTH: F. W. Harris & Co., Ltd.

PRESTON: Costellos (Preston), Ltd.

BELFAST: R. Hovenden & Sons, Ltd.

A staff of skilled chemists is maintained in our laboratories to answer your inquiries and to help you to give your customers the finest products obtainable regardless of cost. Part of this service is the guaranteed supply of smart bottles, jars, tins, labels, etc.

**EMULSIFIER "AI."** 5 lb. plus 5 gallons water makes a perfect thick white hair cream. 75/- for 5 lb.

**EMULSIFIER "EXTRA."** 4 lb. plus 3 gallons water makes a perfect vanishing cream. £3 for 4 lb.

**EMULSIFIER "G."** 12½ lb. plus 5 gallons of water makes a perfect setting lotion. £5 for 12½ lb.

**EMULSIFIER "OK."** 10 lb. plus 5 gallons of water makes a high-grade brushless shaving cream. £5 for 10 lb.

**PERFUME "H.C. Concentrated."** Premium quality. 2-oz. bottle—sufficient to perfume 5 gallons Hair Cream or setting lotion. 20s. plus 100 per cent. purchase tax.

**PERFUME "V.C. Concentrated."** 2½-oz. bottle—perfectly perfumes 200 2-oz. jar vanishing cream or brushless shaving cream for 25s. plus 100 per cent. tax.

**SPRING CLEANING.** Sell De Luxe Furniture Cream, made of finest waxes by registered manufacturers. Retail 2s. 6d. per large 10-oz. jar; trade, 22s. 6d. per dozen.

**SEND NOW!** 160 Smart Gold Seal Hair-cream Labels, 6s.; 160 Smart Gold Seal Vanishing Cream Labels, 6s.; Emulsifier "AI," 15s. per lb.; Emulsifier "Extra," 15s. per lb.; Emulsifier "G," 8s. per lb.; Emulsifier "OK," 10s. per lb. "H.C." Perfume Concentrated, £2, including tax; "V.C." Perfume Concentrated £2 10s., including tax; De Luxe Furniture Cream, 22s. 6d. per dozen jars. All materials, bottles, jars, labels, etc., in stock.

# BRICCAS LIMITED

4 CAVENDISH PLACE, OXFORD CIRCUS, LONDON, W.1. Telephone: LANGHAM 1183



# VIRONITA

VYRO-NIGHT-A

**NEW PACK**  
**NO BOTTLE CHARGE**

**NO RETURNED EMPTIES**

DEALERS are requested to note that this new pack will carry no bottle charges or allowance for empties as at present. The original charged bottles are returnable. The capacity is the same as the old pack which this new bottle supersedes.



A flavoured and seasoned preparation of Beef Extract and Beef Protein.



A delicious and appetising beverage for everyday use.

**STIMULATES the**  
**FLOW OF GASTRIC**  
**SECRETION,**  
**FACILITATES the**  
**DIGESTION of**  
**SOLID FOODS and**  
**MAKES MEALS**  
**MORE NOURISHING**

**STRONG DEMAND, SHORT SUPPLY**

Supplies are being shared out as evenly and fairly as possible.

M. Calthorpe & Co. Ltd., Mfg. Chemists, Ossett



## GABAIL PRODUCTS

**ELIXIR GABAIL**

The ideal sedative in all nervous affections

	Retail, including Purchase Tax	Wholesale per dozen	Purchase Tax
Bottle of 187 c.c. . . .	5/-	39/-	6/6
„ 16 oz. . . .	9/6	72/-	12/-

**SYRUP PERTUSSIS (Gabail)**

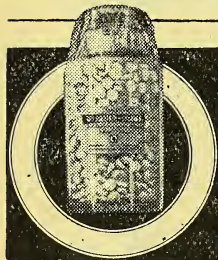
An effective medicament for the paroxysms of Whooping Cough

	Retail, including Purchase Tax	Wholesale per dozen	Purchase Tax
Bottle of 4 oz. . . .	3/-	24/-	4/-
„ 16 oz. . . .	9/6	72/-	12/-

Manufactured by The Gabail Laboratories Ltd. (Gabail Ltd.), London, W.C.1

*Ample supplies available through your usual wholesaler or from***THE ANGLO-FRENCH DRUG CO., LTD.**

11-12 Guilford Street, LONDON, W.C.1

**STILBOESTROL**

**REDUCED  
PRICES OF  
TABLETS  
FOR  
DISPENSING**

0.1 mg. (Yellow) 5/1 per 1000

0.5 mg. (Red) 5/10 per 1000

1.0 mg. (Blue) 7/4 per 1000  
NETT

**STILBOESTROL DIPROPIONATE**  
*in ampoules is also available*

BULK AND HOSPITAL PRICES ON APPLICATION



**RGANON LABORATORIES Ltd.**  
BRETTENHAM HOUSE, LONDON, W.C.2

TELEPHONE: TEMPLE BAR 6785

TELEGRAMS: MENFORMON, RAND, LONDON

**.. MANOIDS ..**  
**.. NEVROIDS ..**  
**URICURE TABLETS**  
**OCCASIONAL PILLS**

THE ACTON PILL & TABLET Co. Ltd.  
ASH VALE, SURREY.  
and all Sundries Houses.

**SD2**

*'The Symbol of  
PERFECT Skin Health*

A revolutionary product for the treatment of skin illnesses with unusual penetrative power. Sold under a money-back guarantee of satisfaction. Liquid and cream. Prompt deliveries.

BIO-COLLOIDS, LTD., ALTRINCHAM, CHES.

**PATA**

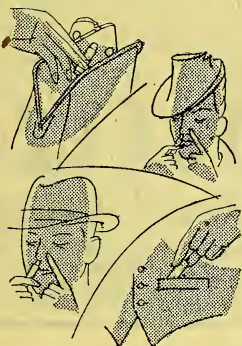
BC20

# Amphetamine...

in the treatment of

## HAY FEVER

value of Amphetamine as an anti-smudic for the relief of Hay Fever is established. The combination of this antile-vasoconstrictor with the bland scents of Cineole, Ol. Citronell, Ol. Cedri, Menthol and Eucalyptus, as recorded in the KARSODRINE INHALER, seldom fails to give relief during attacks—quite frequently dramatic results are achieved. Additionally, the convenience of the cap pocket inhaler enables it to be used wherever the patient may be.



*Always Ready for Instant Use*

Retails at 1/6d. (Inc. Tax).



*Each Karsodrine Inhaler contains:—*

Amphetamine, 0.330 gm.; Cineole, 0.093 gm.; Ol. Citronell, 0.026 gm.; Methyl Salicyl, 0.023 gm.; Ol. Cedri, 0.005 gm.; Menthol, 0.049 gm.; Ol. Eucalypt, 0.039 gm.

*Shows You Up To*

### 5/2½d. Per Dozen Profit

on small quantities when ordered with other "Griffiths Hughes" lines.

For Trade Terms apply

**E. GRIFFITHS HUGHES, LTD.**

ADELPHI, SALFORD 3, MANCHESTER



PRODUCT OF **E. G. LABORATORIES**

**C. T. BOWRING & CO.  
(FISH OILS) LIMITED**  
LIVERPOOL · LONDON · GRIMSBY

## POST-WAR DEVELOPMENTS

We invite offers of the undernoted Plant Units, which we will require for contemplated extension of activities in connection with:

MEDICINAL  
VETERINARY  
TECHNICAL } Products

at our existing Grimsby and Liverpool factories, and to equip an additional recently acquired factory.

We would consider the purchase of Units now operating on war products, but which may be considered by present owners as being surplus to post-war requirements.

REFRIGERATING.  
DEODORISING.  
BLEACHING.  
FILTER PRESSES.  
ELECTRIC PUMPS FOR PRESSES.  
SEPARATORS.  
TANKS—GLASS LINED.  
TANKS—STAINLESS STEEL.

**C. T. BOWRING & CO.  
(FISH OILS) LTD.**  
TOWER BUILDING  
-LIVERPOOL, 3



All the year round demand, and particularly in this dry and dusty weather



### FORMULA

Menthol, 0.5%; Phenol, 0.7%; Ol. Albiet., 0.4%; Ephedr., 0.4%; Ol. Cinnam., 0.15%; Paraff. Liq., q.s.

Trade Price 20/- dozen, plus tax.  
Retailing at 2/9, including P.T.

**THE CAPSULES ENSURE ACCURACY OF DOSAGE IN THE SELF-TREATMENT OF NASO-RESPIRATORY TROUBLES.**

Made in the Vocalzone Laboratories, Carmarthen, makers of the famous Vocalzone Pastilles and obtainable from wholesalers or direct from **BROOKS & Warburton, LTD.**, Vauxhall Bridge Road, S.W.1.

## GUARANTEED SALE

Numerous letters are being received complaining that Vocalzone Capsules are unobtainable at local Chemists. Brooks & Warburton the distributors of Vocalzone therefore desire to draw chemists' attention to these points

- (1) Naso-respiratory troubles prevalent.
- (2) Sprays are in short supply.
- (3) Vocalzone is a soothing and septic and completely effective.
- (4) Vocalzone is a C.F. line.
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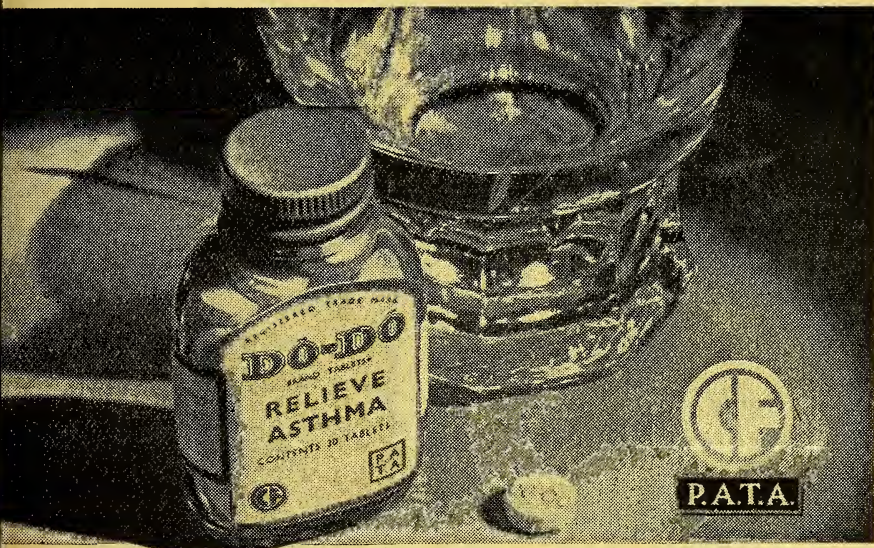
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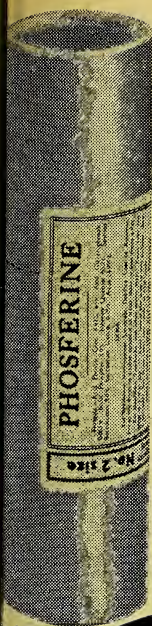
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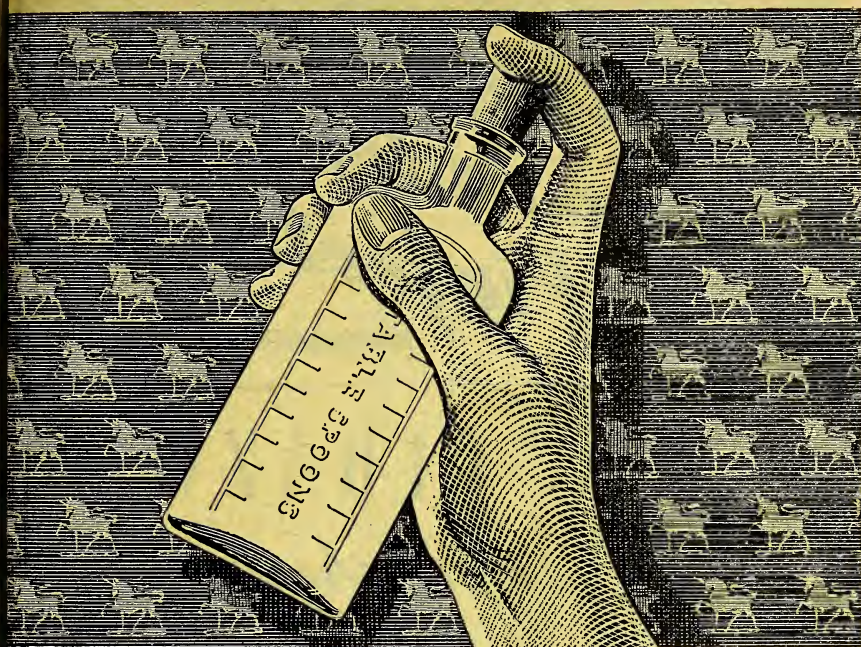
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## NEWS OF THE WEEK

**Branch Representatives Not to Meet.**—The Pharmaceutical Society's Branch Representatives' meeting, fixed for Monday, June 12, has been cancelled.

**London Chamber of Commerce.**—At the annual meeting of the London Chamber of Commerce, on May 24, Major-General Sir van Gibb, K.B.E., C.B., C.M.G., D.S.O., was re-elected *President* for the year.

**Styptic Pencils and Alum Blocks.**—The Board of Trade announces that styptic pencils and alum blocks are not regarded by the Board as controlled goods for the purposes of the Toilet Preparations Orders, R. & O., 1943, Nos. 1213 and 1683).

**British Insecticide Manufacturers.**—At the annual meeting of the Association of British Insecticide Manufacturers held on May 24, the following officers and executive committee were elected: *Chairman*, Mr. H. J. Jones (Hemingway & Co., Ltd.); *Vice-chairman*, Mr. T. Ainslie Robertson (Plant Protection, Ltd.); *Treasurer*, Mr. R. V. Craven (W. J. Craven & Co., Ltd.); *Auditor*,

Mr. R. A. Blair (Burt, Boulton & Haywood, Ltd.); *Executive Committee*, Messrs. A. Berk, R. V. Craven, E. Holmes, H. I. Kingston, J. S. Mitchell, and T. F. West. Messrs. A. J. Holden and W. A. Williams continue as assistant secretaries.

**Eire Medical Services.**—The Medical Association of Eire has set up a special committee to consider the reorganisation of the country's medical services. The Association hopes to produce a scheme that will form the basis of discussions with the Government.

**Thames Valley Officers.**—The annual meeting of the Thames Valley District Pharmacists' Association was held at Kingston-on-Thames on May 25, when the following officers were elected: *President*, Mr. H. L. S. Black, Kingston; *Secretary*, Mr. O. L. Crossley, 106 Malden Road, New Malden; *Treasurer*, Mr. W. Griffiths, Motspur Park. Lively discussion followed on the National Pharmaceutical Union questionnaire on wages, hours of service,

etc., to be negotiated with the Joint Industrial Council for Retail Pharmacy. Further consideration is to be given to the subject at the next meeting of the Association.

**Apple Juice as Curative Agent.**—In a lecture to the Food Education Society in London on May 22, Dr. Vernon Charley, Bristol, described how apple juice was used as a "last hope" in the treatment of two young children suffering from acute acro-dynia in Keighley hospital. Previous treatments, he said, had been tried without effect, but the administration of apple juice soon reduced the symptoms, and in two weeks the children were well and released from hospital. Dr. Charley suggested that a policy of growing fruit directly for fruit-juice production might be introduced in Britain after the war.

**Dublin Chemists' Football.**—A football match between the Chemists' Rugby Club and Chemists' Social Committee, which took place at Tolka Park, Dublin, on May 9, resulted in a draw, the final score being two goals each. The contest was followed by a dinner, at which Mr. C. J. Cremen (president, Pharmaceutical Society of Ireland) opened the stop-watch, which was won by Mrs. G. McCormack, Blackrock. The seller of the lucky time was Mr. W. Prenderville. A musical programme followed, for which Mr. Batt acted as accompanist. Mr. J. Tierney (president, Students' Representative Council), who was in the chair at the dinner, exhorted all to lend their aid by word and deed to the social committee. The committee has arranged an outing to Cliff Castle Hotel, Dalkey, on June 11. Tickets for tea and dance, price 5s. each, may be had from members of the committee.

**I.C.I. Chairman's Address.**—Speaking at the annual meeting of Imperial Chemical Industries, Ltd., recently (see *C. & D.*, May 20, p. 540), Lord McGowan said that Britain's future standard of living would be largely dependent upon the energy of her people, her technical development and an expansion of her export trade. High standards of craftsmanship and work must be matched by ability and skill in management. It could not be claimed that productivity in this country was as high as in the United States, and workers must be armed with more capital instruments per head of a technical standard equal to that found anywhere else. The concern of the State in industrial organisation would tend to increase, and he, for one, would welcome

it, so long as it took the form of help and guidance and stopped short of stifling the progress, speed and achievement of private enterprise.

**Irish Drug Association.**—At a recent meeting of the committee of the Irish Drug Association, Mr. Lyall G. Smith (president) in the chair, attention was called to the Emergency Powers Order made by the Minister for Supplies regulating the whole sale and retail prices of razor blades in Eire. The Order covers over thirty different types of blades at retail prices ranging from one penny to sixpence. Members were also reminded that the return of empties was still causing difficulties for manufacturer and wholesalers. To maintain continuity of deliveries, it was imperative that all empties should be returned speedily, and that the firms to which the empties were returned should be advised direct and by means of a slip bearing the member's name on the empties themselves. At the request of the Irish Compounders' Association, a meeting is to be held to discuss further organisation, and the I.D.A. will be represented by Messrs. Lyall G. Smith, G. C. O'Neill, F. X. Meagher, and T. C. Scott. Members are reminded that the retail price of Melvaron is 8s. 6d.

**Birmingham Committees.**—The annual meetings of the Birmingham Branches of the National Pharmaceutical Union and Pharmaceutical Society and of the Birmingham Pharmaceutical Association were held on May 15, when personnel of *Committees* was decided as follows:—N.P.U. Branch, Messrs. J. P. Atkinson, E. C. Bennison, J. W. Bland, S. C. Blore, H. Buckingham, G. Goulding, S. Harris, W. J. Izon, H. H. Marshall, W. Martin, H. Rigg, and L. H. Teare. Pharmaceutical Society Branch, Messrs. J. H. W. Barker, E. C. Bennison, G. Goulding, F. A. Gunn, E. W. Mann, H. H. Marshall, W. Martin, N. R. Parrish, F. W. Sambidge, L. H. Teare, E. C. Thonger, and H. Walsh. Council of the Association, Messrs. J. P. Atkinson, J. H. W. Barker, E. C. Bennison, J. W. Bland, S. C. Blore, H. Buckingham, H. J. Callow, M. A. Clarke, G. Goulding, F. A. Gunn, S. Harris, W. J. Izon, E. W. Mann, H. H. Marshall, W. Martin, N. R. Parrish, H. Rigg, F. W. Sambidge, H. Sears, F. Smith, L. H. Teare, E. C. Thonger, and H. Walsh.

**Analysts' Grievance.**—A deputation from the Royal Institute of Chemistry and Society of Public Analysts attended the Ministry of Health, recently, to protest against



certain activities of the emergency public health service established when war broke out (see also p. 597). The complaint was that, when the service failed to be called upon for the special tasks for which it was set up, it began to undertake bacteriological and chemical examinations of water supplies—work previously carried out by public analysts and other chemists. Objections lodged at intervals during the past two years appeared to have had no effect, and the analysts considered that the Medical Research Council was acting in such a way as to ensure that the service it administered should become a permanent part of the public health service. The deputation included Mr. E. W. Salt (chairman, Parliamentary and Scientific Committee), Professor F. Alexander Findlay (president, Royal Institute of Chemistry), Mr. S. E. Telling (president, Society of Public Analysts), Dr. F. H. Carr (a director, The British Drug Houses, Ltd.), and others.

**Walthamstow's £100 for War Funds.**—Gifts totalling £100 to the National Phar-

maceutical Union War Distress and Pharmaceutical Society's War Aid Funds were reported by the secretary (Mr. W. E. Gaze) at a meeting of the Walthamstow Branch of the National Pharmaceutical Union, on May 17, at which Mr. H. W. A. Woollard, Buckhurst Hill (chairman), presided. The sum actually collected by the Branch was £70 11s. 6d., but some members had sent their donations direct. These, with donations to the Pharmaceutical Society's War Aid Fund, brought up the total. Mr. R. H. KEMP (secretary, Chemists' Friends Association) gave an address on "Is Pharmacy in the Melting Pot?" in which he dealt with problems arising out of the proposed National Health Service and the part pharmacists might have to play in it. A discussion followed, in which MESSRS. W. G. ROBINSON, F. W. ALLAN, B. W. E. BEARD, W. C. KING and D. STEELE took part. Proposals for wages and working conditions to go before the Joint Industrial Council for Retail Pharmacy were discussed and recommendations made.

## PRESENTATION TO MR. FRED ORCHARD

FOLLOWING a joint meeting of the Somerset Branches of the Pharmaceutical Society and National Pharmaceutical Union on May 18, a company of twenty-six members and friends gathered to do honour to their former secretary Mr. Fred Orchard, (Highbridge). At an informal tea the president of the society (Mr. W. Spencer Howells) presented Mr. Orchard, on behalf of the Somerset pharmacists, with an illuminated album containing the names of donors, with a cheque for £73 10s. Mr. W. DEACON, supported by the mayor and mayoress of Weston-super-Mare, related how Mr. Orchard had come to Weston as a junior to the late Mr. Edwin Hall. The "fair like wine" had set him on his feet and given him strength to go up to London and qualify in a very short period. After qualifying, he had returned to Mr. Hall at Weston and later, when the late Mr. Frank Blackmore purchased the business, he remained



Mr. Fred Orchard

as qualified assistant about two years. In 1898 Mr. Orchard had left Weston, but remained in the district he loved by purchasing a business at Highbridge, in which he still practised, though for reasons of health he had recently turned it into a limited company. From 1918, when Mr. Tydeman had left the county, Mr. Orchard had been secretary to the Pharmaceutical Committee, and when the local branches of the Society and N.P.U. were formed, he was appointed the secretary of each. In addition, he had been secretary of the Somerset Pharmaceutical War Committee until 1943. Mr. Deacon said how much all deplored the breakdown in health that had brought about his retirement, and, on behalf of friends in Somerset, thanked him for a splendid job of work done efficiently and quietly.

The mayor of Weston and several friends spoke in appreciation of Mr. Orchard's work, and Mr. SPENCER HOWELLS, making the presentation, said how pleased he felt to be asked to take part in honouring such a well-loved and respected pharmacist. On behalf of the chemists of Somerset he had the utmost pleasure in presenting him with the album and cheque and wished him many years of happy memories. Mr. ORCHARD movingly returned thanks to the donors of the gifts.

## CANADIAN NOTES

**Salt-water Soap.**—To conserve fresh water aboard ships at sea, the Royal Canadian Navy has developed a salt-water soap for general cleaning purposes.

**Multiple Drug Stores.**—The Dominion Bureau of Statistics, Canada, reports that the number of drug-store chain companies operating in 1941 was thirty-nine, against thirty-one in 1930; there were 361 branches, against 292 in 1930. In 1941 the volume of business transacted was \$18,849,500, or 18.7 per cent. of the total sales of all pharmacies, against \$13,971,300 (18.2 per cent.) in the year 1930.

**Anti-tetanus Drug Predicted.**—New medical wonders are pending, according to Dr. J. Mark Hiebert (assistant to the president, Winthrop Chemical Co., Inc., New York) speaking recently in Montreal, including a new sulphonamide compound that may sound the death knell of the deadly anaerobes that cause lock-jaw. Development of the new drug, as yet unnamed, is not a "war secret," but cannot be disclosed until studies now in progress are completed.

**Toilet Waters to be Medicated.**—Under an amendment to the Liquor Control Act now due for a second reading in the Ontario Legislature, lotions, toilet waters, perfumes and similar preparations containing alcohol will be required to conform to certain medication requirements, and will not be allowed to be sold for beverage purposes. The onus will be placed on the purchaser and seller if such items are used for beverage purposes, and heavy penalties are provided against misuse. It is on record that a number of deaths have been reported in Ontario through drinking such preparations.

**Washing Compounds Industry.**—The Department of Trade and Commerce, through the Dominion Bureau of Statistics, has issued a report on the soaps, washing-compounds and cleaning-preparations industry of the Dominion during 1942. One hundred and twenty-five factories were concerned in the manufacture of these products, and production was valued at \$31,484,125, or 22.4 per cent. above the 1941 output from 116 factories. Employees numbered 3,268 against 3,080, and capital involved stood at \$23,964,341 against \$19,655,049. Output in tons included 17,359 of toilet soaps, 22,814 of soap chips and flakes, 25,662 of soap powders, 126 of Castile soap, 767 of shaving soaps and creams, 2,101 of liquid soaps and 1,316 of soft soap.

**Penicillin for Civilians.**—Penicillin manufactured in the two publicly-owned Canadian plants at Montreal and Toronto (see *C & D.*, 1943, II, 281) will, within five or six months, be released for other than military use, announced Mr. C. D. How (Minister of Munitions and Supply) recently. "We have been acting under the guidance," he went on, "of the committee of the National Research Council whose responsibility it was to determine the requirements both of the armed forces of Canada and for other uses, and to guide the Department in production steps." Production will be greater than was anticipated when the plants were organised.

**Health Insurance Bill.**—A three-day conference of Ministers and Deputy Minister of Health from all the Canadian provinces met at Ottawa on May 10 to consider a draft National Health Insurance Bill, which has been prepared for preliminary approval by the Federal Department of Pensions and National Health. Benefits under the Bill are expected to cost \$250 millions annually and the cost will be met by contribution from insured persons and by a graduated Federal tax on incomes. For all persons over sixteen years of age a flat provincial contribution of \$12 annually will be collected, and in addition single persons will contribute to Dominion sources 3 per cent. of their income over \$660 (but not exceeding \$30 yearly); married persons will pay 5 per cent. of income over \$1,200 (but not exceeding \$50 annually).

**Tin Salvage.**—During a recent seventeen-months' period the amount of tin salvaged from empty tooth-paste, shaving-cream and similar tubes, returned by residents of Montreal, reached a total described by an official of the Used Goods Administration as sufficient to provide the tin needed in the manufacture of 845 bomber aircraft. The War-time Prices and Trade Board of Canada has announced that exhausted collapsible tubes need no longer be returned by customers as a condition of purchase of shaving-creams and tooth-pastes. Thus ends a compulsory salvage measure instituted early in the war. The reason for lifting the decree is that the amount of tin used in newly manufactured tubes has become reduced to a point at which the return of tin recovered is less than 15 per cent. of the gross weight. Collections on a voluntary basis will continue. The total weight of empty tubes so far collected is 400,000 lb.



## TOPICAL REFLECTIONS

### M.A. Draft Report

The draft report of the Council of the British Medical Association on the N.H.S. White Paper (pp. 573-74) is a notable manifesto; and there is little doubt that it will be endorsed by all, or nearly all, the 46,195 members of the Association. I was glad to read the words "firm grasp and statesmanlike presentation of facts." Too often the adjective "statesmanlike" has been used as a synonym for sitting on the fence or for morosely watching a certain domestic animal that was expected to jump. The Council of the B.M.A. has not hesitated to speak its mind. In such sentences as that referring to the "fragmentation" of medical services it is evidently thinking of a bureaucratic application of the Bismarckian principle "Divide and rule." In this case we may believe that forewarned is forearmed. One further inference may, I suggest, be drawn from this challenging document. Whatever may be the outcome of the study of details, the White Paper is fundamentally weak in that its long-term policy is not co-ordinated with its short-term policy. The authors have fixed their eyes on a distant goal without sufficiently considering the steps that can lead to it. They did not (to paraphrase Browning's words), finding first what may be, find how to make it fair up to their means. They failed to allow for the experimental stage that must usher in any considerable changes in so complex a matter as the care of health. It is now known that the annual representative meeting of the B.M.A. and the delegate conferences called by the Pharmaceutical Society and the National Pharmaceutical Union have been postponed or cancelled.

### A Lead to Pharmacy

If anyone, on reading the preceding paragraph, asks "What has this to do with pharmacy?" the answer is to be found in your editorial article on the subject, already mentioned. At the annual meeting of the Pharmaceutical Society (p. 565) the president appears to have thought that as the White Paper did not appear before December 31, 1943, he could only refer to it incidentally. On the following day, however, he was more expansive on this topic in Somerset (p. 560). Your report of the latter meeting ends with the statement that the N.H.S. scheme was considered "too nebulous" for the drafting of any resolution. But is it? I am not one of those who assert that nothing is being done by our national

executive bodies. The fear is rather that pharmacy may be committed, by inference, to some course or courses not decided upon with a full backing of public opinion. In the breathing space now provided, chemists' associations have an excellent opportunity to formulate proposals. A few have already done so. The Ministry of Health has promised to consult all the interests involved; it is therefore to be expected that dentistry, nursing and perhaps other professions or vocations will in turn have views to express. Pharmacy should be prepared with a scheme strong enough and adaptable enough to meet any objection that may be advanced against it. Returning to the annual meeting at Bloomsbury Square, the result of the Council election, analysed in an interesting paragraph on p. 574, reinforces an idea expressed in this section some time ago—that only in exceptional circumstances should a pharmacist hold a seat on the Council of the Pharmaceutical Society and another on the Executive of the National Pharmaceutical Union. It is surely sufficient for any man to attend to the claims of one executive body.

### Many Inventions

On p. 575 you comment on a recent pronouncement by the Chartered Institute of Patent Agents controverting suggestions for the compulsory licensing of patents. By way of pendant, I should like to call attention to a letter by Dr. Herbert Levinstein in "The Times" of May 26, which I can only summarise briefly. Dr. Levinstein contends that a large proportion of the patents granted "contribute nothing to technological progress, and are inherently invalid owing to lack of subject-matter." Of those tested in court, 90 per cent. fail. Patents are granted for four years, and can be renewed annually. More than half of those sealed in 1919-32 were not renewed for a fifth year, and only 3.7 per cent. were kept alive for the full sixteen years allowed. "Obviously," comments Dr. Levinstein, "no great harm would have been done to the patentees if 95 per cent. had been rejected at the outset. . . ." Many of us, I suppose, can remember cases of inventors who have embarked with insufficient knowledge on the risky enterprise of patenting some invention which, they hoped, might provide a short cut to a fortune. The way should not be too easy for these misguided people; nor should "vast numbers of monopolies" be granted to foreigners.

**Xrayser**

## LEGAL REPORTS

**Committed for Trial.**—At North London police court, on May 24, Gordon Francis Sprank, aged twenty, and James William Davis, aged twenty-five, Ashford, Middlesex, described as wholesalers, were charged with conspiring together to defraud anyone who would give credit to a shop known as Howards Supplies, 69 Howard Road, Stoke Newington, London. It was alleged that defendants obtained goods on credit to the extent of £250, and removed them in a van to a shop at Harrow, Middlesex, which they opened as a retail drug store.

**Penal Servitude Sentence.**—At the Old Bailey, London, recently, Norman Harold Leaper, M.P.S., Woodcock Hill, Kenton, Middlesex, was sentenced to four years' penal servitude on charges of having conspired with Jane Curran, Canning Town, London, E., and Lucy Vernon, Moseley, Birmingham, to procure miscarriages. Evidence was given that a woman visited a shop in the Haymarket, London, at which Leaper was manager, and was supplied with "a harmless concoction" at a cost of £2 2s. On a second occasion an officer of the U.S. army called at the shop and was supplied with a further bottle at the same price. He was told by Leaper that if the preparation did not work he could be put in touch with someone who could bring about the desired result at a cost of £50 to £60. The officer and the woman produced the money and were taken to an address in East Ham, to which they were followed by detective officers. Examination of the till in the shop did not reveal that any of the money went to Leaper's employers.

**Manager's Duty to Know the Law.**—At Caistor, Lincs, recently, Robert Hall, Market Place, Caistor, was fined a total of £9 9s. and ordered to pay £3 3s. costs on charges of having unlawfully sold a poison (codeine) in a bottle of bronchial and catarrh syrup, and another poison (strychnine) in compound syrup of hypophosphites. A third charge related to the labelling of the bottles. The evidence was that Hall was left in charge of a chemist's shop when the owner left on national service. Hall admitted the offences but contested the seriousness of them in a case of this kind. He claimed that, as he had been in pharmacy for twenty years, he was not without practical qualifications, and that the public had not been endangered as a result of what he claimed were technical offences. When a representative of the Pharmaceutical

Society, after making the purchases, revealed her identity, Hall was stated to have replied, "I have been in charge of this shop for four years and I realise I have been sailing under false colours." The chairman said the Bench wanted Hall to appreciate that the position he held was a responsible one and that, as manager of such a shop, it was his duty to study all the Acts passed in protection of the public making use of chemists' shops. It was an extenuating circumstance that the proprietor of the business was away on national service, but it was the proprietor's responsibility to see that someone properly qualified was left in charge. The Bench hoped he would realise the seriousness of this aspect, and take any steps necessary to safeguard his own interests and those of the public. An inspector of the Pharmaceutical Society stated in the Court, when the defendant raised the question of an appeal, that the shop still displayed a sign claiming that it was a chemist's shop.

## PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

THE monthly meeting of the Council of the Pharmaceutical Society of Northern Ireland was held at 73 University Street, Belfast on May 19, Mr. J. T. Nicholl (president) in the chair. Others present were Messrs. Charles Abernethy (vice-president), and James McDowell (treasurer), Dr. S. E. A. Acheson, Professor E. B. C. Mayrs, M.D., and Messrs. J. E. Connor, J.P., H. H. Cowzer, James Donaghy, James Glendinning, J. W. Gray, J.P., J. F. Grimes, J.P., John McGregor, H. F. Moore and W. C. Tate. Mr. D. L. Kirkpatrick (secretary) was in attendance.

Mr. J. McDOWELL proposed, and Mr. C. ABERNETHY seconded, that THE CHEMIST AND DRUGGIST should be sent to members and associates as formerly. Recommendations from the Finance Committee that the salary of Miss Kennedy (temporary typist) should be increased by 7s. 6d. per week to £2 7s. 6d., and that the remuneration of the house steward (Mr. Gilchrist) should be raised from 30s. weekly to £2 weekly, were adopted on the motion of Mr. JAMES McDOWELL, seconded by Mr. J. T. NICHOLL.

Messrs. William Kelly, Woodhouse Street, Portadown, and James McKenzie, 280 Falls Road, Belfast, were elected members of the Society on the motion of Mr. J. W. GRAY, seconded by Mr. JAMES DONAGHY.



## COMPANY NEWS

**JOHNSON & WARNES, LTD. (P.C.).**—Capital £1,000. Chemists, druggists, drysalters, manufacturers of and dealers in toilet preparations, etc. Directors not named. Solicitors: Landons, 52 Bishopsgate, London, E.C.2.

**WILFRID SMITHSON & Co., LTD. (P.C.).**—Capital £100. Manufacturers of and dealers in chemicals, drugs, toilet requisites, etc. Mrs. Grace H. Ward and Wilfrid W. Smithson, M.P.S., directors. R.O.: Midland Bank Chambers, Welwyn Garden City.

**PILKINGTON CHEMICAL & MANUFACTURING Co., LTD. (P.C.).**—Capital £100. Chemists, druggists, drysalters, etc. Beatrice M. Harrington and Mary B. Pilkington, directors. Solicitors: Haslewood, Hare & Co., 39 Temple Chambers, London, E.C.4.

**STANDARD CHEMICAL & PHARMACEUTICAL CORPORATION, LTD. — (P.C.).**—Capital £10,000. Chemists, druggists, drysalters, manufacturers of and dealers in toilet, photographic and surgical requisites, etc. Directors not named. Solicitors: Landons, 52 Bishopsgate, London, E.C.2.

**NEWTON, CHAMBERS & Co., LTD.**—Net profit for the year is £99,435, against £78,849 in the previous year; ordinary dividend declared, 15 per cent. (same); carried forward, £127,467, against £104,002 brought in.

**B. LAPORTE, LTD.**—At a meeting on May 5, resolutions were passed for an increase of the authorised capital to £1,000,000. It is understood that no immediate issue is contemplated. The chairman (Mr. L. P. O'Brien) stated that net profit for the year amounted to £201,939, against £197,315 in the previous year. Total dividend declared on ordinary shares, 15 per cent., less tax.

**Meeting of Creditors.**—The statutory first meetings of the creditors and contributories of Holmes, Martin & Co., Ltd., London, W.C., were held on May 25. The official receiver reported that the company was incorporated on November 26, 1942, as manufacturer of and dealer in all kinds of chemical products. The nominal capital was fixed at £1,000 but only two shares of £1 each were issued. The company was promoted and its policy was dictated by Mr. Daniel Jedwab, who acted as general

manager at a salary of £20 a week. Until the middle of 1943, the company carried on a relatively small trade in the purchase and sale of chemicals, but in June of that year it engaged in the marketing of furniture cream, floor polish and sweetening tablets. In April 1943 Mr. Jedwab made arrangements with a manufacturing company to supply his company with sweetening tablets whenever available, and he gathered from the manufacturers that they would be able to deliver weekly supplies to the extent of between £200 and £250. He advertised the tablets for sale in May 1943. Prospective customers were asked for cash with orders, and in the six months from June 1943 £8,000 was paid in advance for the tablets. Less than one-half of the orders were executed; about £2,000 was returned to customers who exerted pressure, but some thirty customers who had advanced approximately £2,500, and one who had sent £1,000, received no consideration in return for their money. No statement of affairs had yet been lodged, but unsecured liabilities were estimated at between £6,000 and £7,000. No assets had been discovered. The chairman remarked that the conduct of the company's business was, to say the least, open to severe criticism in that, with an issued but unpaid capital of £2, Mr. Jedwab caused the company to embark upon an undertaking which involved heavy expenditure (particularly for salaries), and appeared to have taken little, or no, reasonable precautions to see that the commodities which the company sold were either available or up to standard. The whole of the transactions carried out by Mr. Jedwab through the medium of the company appeared to require the closest investigation. In the absence of any resolution the liquidation was left in the hands of the official receiver.

### C. & D. QUIZ NO. 29

1. What is quinetum?
2. Why is hafnium so named?
3. Who named digitalis?
4. Which author advocated the use of perfumes in medicine?
5. How was iodine first given in medicine?
6. What is Ceylon calumba?
7. Why is "long buchu" excluded from the B.P.?
8. Who discovered lutecium?
9. Which spice was given to Queen Elizabeth as a birthday gift?
10. What is kief?

(Answers on p. 610)

## TRADE NOTES

**Now in Better Supply.**—Tampax, Ltd., Belvue Road, Northolt, Middlesex, announce that increased supplies of Tampax are now being dispatched to wholesalers, to whom all orders should be addressed.

**Supply Exceeded by Demand.**—Charles F. Thackray, Ltd., Leeds, announce that the demand for Optrex brand tulle and sulphanilamide tulle has increased so rapidly that there has been some delay in filling orders. These are being dealt with in strict rotation and efforts are being made to improve the supply position.

**Intensive Research Programme.**—Ashe Laboratories, Ltd., London, S.W.1, state that an intensive programme of research undertaken by the company's staff to overcome difficulties in connexion with protein digests and single amino-acids in the nutritional needs of human beings is now well advanced. Protein hydrolysates for parenteral and oral administration are now available.

**Manufacture in Egypt.**—C. M. Salvago & Co., 22 Sheriff Pasha Street, Alexandria, offer to undertake the manufacture in Egypt of the specialties or ethical products of British manufacturers under licence or royalties. They offer up-to-date laboratories and an efficient selling organisation with thirty branches throughout Egypt. In an announcement in this issue the company, which was established in 1865, gives three references in this country.

**A Fruit and Jam Preserver.**—Lexil, a bacteria- and mould-resisting emulsion marketed by Croda, Ltd., Goole, Yorks, is poured direct on to the fruit or jam. It sets on cooling and so forms a seal. The method is as simple as the old-fashioned way with mutton fat and paraffin wax, but without the risks of cracking and rancidity. Any type of jar can be used, as there are no caps or fittings. Also the Lexil used can be recovered and used over again.

**Supplement to War-time Diet.**—Evans Sons Lescher & Webb, Ltd., Liverpool, direct the attention of chemists to their speciality, Colliron, liquid or capsules, which provides iron in palatable and assimilable form, the capsules being fortified with vitamin B<sub>1</sub> and nicotinic acid. The makers point out that an insufficiency of iron in present-day diet is not uncommon, particularly among infants and expectant and nursing mothers. Both liquid and capsules are issued in three sizes.

**New Cholecystographic Agent.**—Phenidol, a new cholecystographic contrast medium, which has been shown to possess important advantages in effectiveness and tolerance, is now issued by Burroughs Wellcome & Co., London, N.W.1, as Wellcome brand phenidol, in bottles of 25 gm., and as Wellcome brand phenidol meal in tubes of 4.5 gm. (equivalent to 3 gm. phenidol). The meal contains wetting and flavouring agents which enable an easily taken and palatable suspension of the compound to be conveniently prepared. The tubes, which contain the normal adult dose of phenidol, are available singly and in cartons of six.

**New Books.**—Four recently published works are reviewed on p. 605. The following new books have also been received and will be reviewed in due course: **PRINCIPLES OF ORGANIC CHEMISTRY.**—S. J. Smith. 8½ in. by 5½ in. Pp. 569. 15s. Macmillan & Co. Ltd., St. Martin's Street, London, W.C.2. **INTRODUCTION TO PHARMACOLOGY AND THERAPEUTICS.**—J. A. Gunn. 6½ in. by 4 in. Pp. 268. 7s. 6d. Humphrey Milford Oxford University Press, Amen House Warwick Square, London, E.C.4. **PLASTIC MOULDING.**—D. A. Dearle. 7 in. by 4½ in. Pp. 104. 6s. Hutchinson & Co., 47 Princes Gate, London, S.W.7. **TWO CZECH CHEMISTS.**—Gerald Druce. 8½ in. by 5½ in. Pp. 68. The New Europe Publishing Co., Ltd., 29 Great James Street, London, W.C.1.

## Business Changes

MRS. JAMES STEWART, 14 Annfield Street, Glasgow, has applied for a licence under the Location of Retail Businesses Order to start in business as a retailer in several classes of goods, including patent medicines and toilet soaps, at 5 Scotstoun Place, Glasgow.

## COMING EVENTS

Sunday, June 4

MANCHESTER PHARMACEUTICAL ASSOCIATION. Ramble to Higher Poynton and Bollington. Meet London Road Station, 9.30 a.m. Book Bollington return.

GLASGOW AND SOUTH-WESTERN SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, Central Halls, 25 Bath Street, Glasgow, at 2.30 p.m. Discussion on "The White Paper as It May Affect Pharmacists."

Friday, June 9

ROYAL INSTITUTION, 21 Albemarle Street, London, W.1, at 5 p.m. Mr. Michael Graham on "Man and Science in the Sea Fisheries."



## BIRTHS

**HAMILTON.**—At 11 Queen's Park Avenue, Glasgow, S.2, on May 17, Isobel McConnell Hamilton, M.P.S., the wife of James W. Hamilton, of a daughter.

**MURPHY.**—Recently, Maureen, the wife of Martin Murphy, M.P.S.I., 24 Haddon Road, Clontarf, Dublin, of a son.

## DEATHS

**DAVIES.**—On May 4, Mr. Henry Davies, M.P.S., 8 High Street, Tonyrefail, Glamorganshire. Mr. Davies qualified in 1897.

**CROSSLING.**—Recently, Mr. Frank Crossling, M.P.S., 39 Justice Street, Aberdeen, aged seventy-eight. Mr. Crossling specialised in horticultural business, particularly ferreters and weed-killers. He is survived by a widow and two sons.

**MEREDITH.**—On November 12, 1943, James Frank Meredith, M.P.S., 246 Want Road, Drayton, Cosham, Hants.

**MORGAN.**—On May 9, Mr. Richard James Morgan, M.P.S., 8 Caledonian Road, London, N.1, aged sixty-seven.

**MOSLEY.**—On April 27, Mr. John Willie Mosley, M.P.S., 45 Royd Street, Longwood, Huddersfield. Mr. Mosley qualified in 1923.

**THOMAS.**—On May 1, Mr. Richard William Thomas, M.P.S., 11 Alexander Road, Briton Ferry, Neath. Mr. Thomas died in 1933.

**TOCHER.**—On April 26, Mr. Edward Alexander Grey Tocher, M.P.S., 3 Wonderme Parade, Kinson Road, Bourne-mouth. Mr. Tocher qualified in 1936.

**TULLY.**—Recently, Mr. Fred Herman Tully, Ph.C., 23 Pulteney Street, Bath, aged twenty-one. Mr. Tully passed the Major Examination of the Pharmaceutical Society in 1895, and shortly afterwards won the Leira medal. He was then appointed a demonstrator at the Metropolitan College Pharmacy, under Mr. Watson Will, and he went to Japan to take up an analytical post for a maritime insurance company. On his return to England, and after periods in Southbridge Wells, Southsea, and Bourne-mouth, he became manager of a business in Ilkeston. About five years ago he retired from Bath, but on the outbreak of war took up work again, latterly dispensing at the Bath Eye Infirmary on behalf of Davies, John & Aspell. Mr. W. J. Hallett, representing the local Branch of the Pharmaceutical Society, of which he is secretary, attended the funeral.

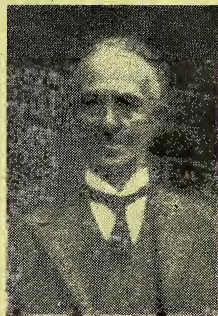
## PERSONALITIES

**SIR WALTER LANGDON-BROWN, M.A., M.D.** (a member of the Council of the Pharmaceutical Society), has been elected an Honorary Fellow of the Royal Society of Medicine.

**MR. MICHAEL J. O'ROURKE, M.P.S.I.,** Dun Laoghaire, was nominated as a Government party candidate for the co. Dublin division in the recent Eire general election.

**MR. J. GILLETT, M.P.S.,** has been appointed president of the Blackburn Rotary Club. Mr. Gillett is an active member of North-east Lancashire Branch of the Pharmaceutical Society, and of the Blackburn Chemists' Association.

**MR. FREDERICK W. PARR, 33 Josiah Road, Northfield, Birmingham,** has completed fifty-two years' service with Southall Bros. & Barclay (1935) Ltd., and is retiring this month. On behalf of the company's employees, Mr. A. T. Hall (managing director) is to present Mr. Parr with a wallet of money as a token of their regard and appreciation of his service, and to wish him a long and happy retirement. Mr. Parr has for many years been in charge of the dispatch department, which controls fourteen motor vans. His indentures, signed in 1894, for a six years' apprenticeship, with wages at eight shillings weekly in the first year and eighteen shillings in the sixth year, contained the following interesting clause:—



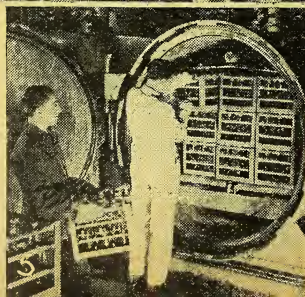
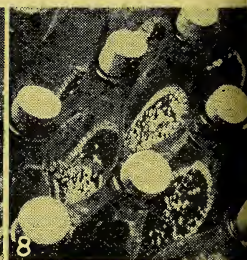
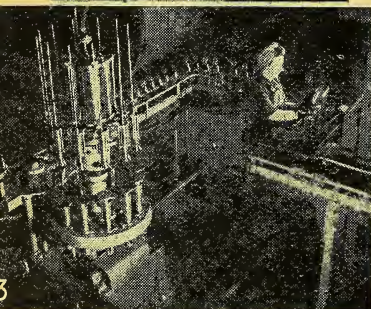
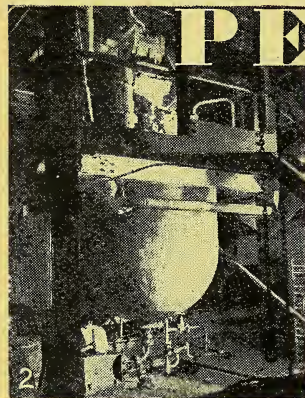
During which term the Said Apprentice his Masters faithfully shall serve, their secrets keep, their lawful commands everywhere gladly do. He shall do no damage to his said Masters nor see it done by others, but to the best of his power shall let and forthwith give notice to his said Masters of the same. He shall not waste the goods of his said Masters, nor lend them unlawfully to any. He shall neither buy nor sell without his Masters' licence. He shall not play at cards, dice, tables, nor any unlawful game. He shall not haunt taverns nor ale-houses, nor absent himself from his said Masters' service night or day unlawfully, but in all things as a faithful Apprentice he shall behave himself towards his said Masters and all theirs during the said term.



# MASS PRODUCTION OF PENICILLIN

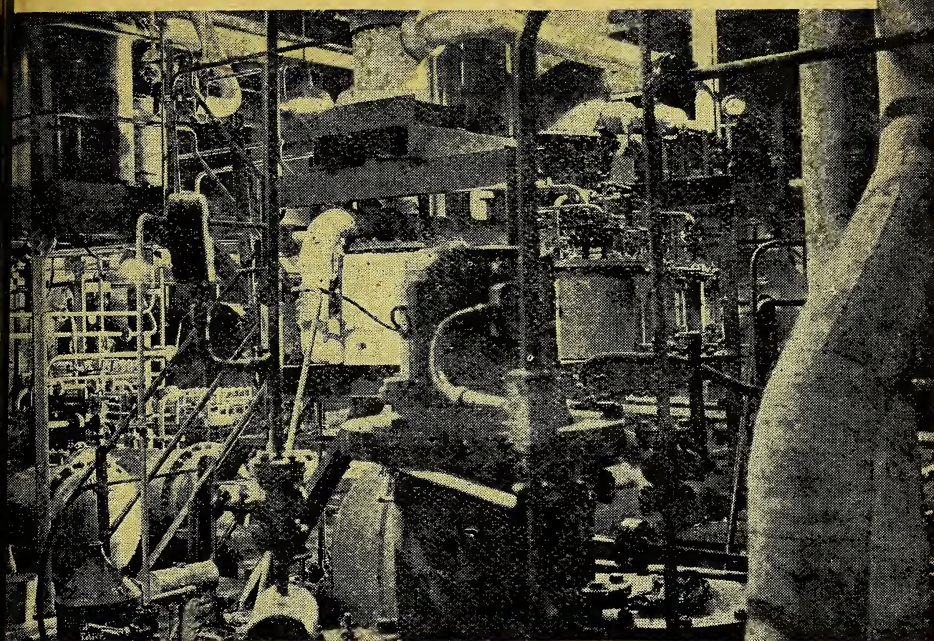
The whole process illustrated in a series of pictures released by Imperial Chemical Industries, Ltd.

1. Penicillin for ten "life-or-death" cases.
2. Medium pan: first stage in preparing the nutrient medium in which the mould grows.
3. Transit of bottles from delivery end of bottle-washing machine (right), to filler (left centre) and thence to crates for sterilising.
4. Charging each bottle with a measured quantity of medium.
5. After being "corked" with a porous wad to allow "breathing" while excluding air-borne micro-organisms, the crated bottles are loaded into sterilisers.
6. Mass methods of manufacture are applied in a specially-built plant for processing the incubated liquor so as to obtain a concentrated (amber-coloured) penicillin fluid.
7. Each bottle of medium is inoculated or "sown" with the culture of *Penicillium notatum* before passing to the incubators.

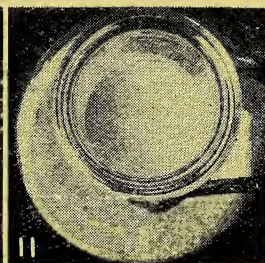


8. In the incubator the day's batch is set aside for nine days at a controlled temperature of  $23^{\circ}\text{C}$ ., while the mould develops.
9. Fully grown, the mould covers the liquor, which now contains a small amount of penicillin (one or two bottles of liquor are needed to secure a single dose of penicillin).
10. The bottles are emptied over a filter and the mould squeezed to express all liquor before being thrown away.
11. The flask of liquor dries out, leaving a golden "crust" of penicillin, which needs to be ground and packed. It is examined in the control laboratory (see 13, below) before issue to the medical service. In use, the powder is remade into a solution. Illustration shows flask of powder viewed through neck.
12. Flasks of penicillin are frozen, connected to traps immersed in Drikold alcohol mixture, and evacuated. The water distils without melting and is collected as ice in the traps.
13. At work in the control laboratory.
14. Culture, as grown on potatoes, for making the spore suspension.





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## IMPRESSIONS OF A DOCTOR-PHARMACIST

AN address on "Pharmacy and Medicine, as seen by a Doctor-Pharmacist," was given by Dr. F. A. BARRIE, Liverpool, who was actively engaged in pharmacy for twenty-seven years before qualifying as a medical man, to members of the Liverpool Chemists' Association and Branch of the Pharmaceutical Society on May 18. Alderman W. J. Tristram, J.P., presided.

### Pharmacy as Stepping-stone

Speaking "as a private individual," DR. BARRIE asked "Does pharmacy provide a stepping-stone to medicine?" His answer was "Yes, but not to so great a degree as might be thought." In the first year of the medical course, the chemist had little advantage over his fellows; in the second and third years (anatomy and physiology) little or none; but in the fourth, fifth and sixth years (the clinical years) a distinct advantage, for the reasons that, being used to personal contacts with customers, he found no difficulty in his approach to patients (it took others a long time to feel at ease, especially with nervous and embarrassed patients) and that a sound knowledge of pharmacy was a tremendous advantage. The normal medical student started at zero and, when his course was finished, his knowledge of pharmacy was still rudimentary.

Relationship between doctor and chemist should show respect for the other's province. Separation of prescribing and dispensing was ideal but, like most ideals, difficult to attain. There was one point that might not occur to pharmacists, and that was the desirability of restricting the number of times a prescription should be dispensed. A simple bromide mixture might be prescribed for a case of thyrotoxicosis, and it was important that the patient should be kept under observation. Providing "copy" prescriptions he described as a pernicious practice—a nuisance to the chemist and possibly prejudicial to the patient. To forbid doctors to dispense would be easy. To forbid chemists to prescribe would not be so easy, even if chemists looked upon the innovation agreeably.

### Laboratory Work

One way in which to improve the relationship between chemist and doctor, and to raise the status of the chemist, was to add certain laboratory work to the curriculum. If the dispenser not only mixed medicines but also co-operated in the diagnosis, the

two parties would be drawn together inevitably. The average doctor was at a disadvantage in the dispensary; on the other hand, he was quite at home in the laboratory. In the matter of leisure, the chemist was better off than the doctor, said Dr. Barrie, but both were underpaid; both had responsible occupations, with plenty of interest and variety. His own transition from pharmacy to medicine had been a matter of six years' hard work. He had worked hard—very hard—in pharmacy but it had been his lot to work even harder in medicine. To any pharmacist thinking of studying medicine, he gave the advice "make sure you like it, and then don't think, but get on with it." There was a crying need for medicine and pharmacy to present a united front to the lay world especially in view of the projected changes

### Joint Committees Suggested

MR. W. E. HUMPHREYS thought it would be an excellent thing, in the new medical service, if local committees of doctors and pharmacists could be formed and meetings held at regular intervals to thrash out difficulties.

A member remarked that there was an increasing tendency on the part of doctors to deprive chemists of half the dispensing fees by prescribing 20-oz. mixtures, instead of the usual 8-10-oz. mixtures. He hoped this would be discontinued.

MR. J. L. HIRST proposed a vote of thanks. MR. H. HUMPHREYS JONES, who seconded, claimed that pharmacists made splendid doctors and analysts. Nothing could equal the training that a bright boy or girl could get in a chemist's shop, and there was nothing in the scheme of training to take the place of apprenticeship. In the past thirty-six years, he said, forty-nine students of the Liverpool School of Pharmacy had qualified as doctors.

**All We Have to Do.**—Chemists ought surely to follow the plant's own steps in synthesis. Presumably the seed of the cinchona tree has no quinine in it; how about the first shoot? At what stage of the tree's growth can you first detect in it some compound that others haven't got? The same with penicillium. It is fourteen days before the mould has made its full whack of penicillin; but what has it made by seven days, or by three? All we have to do is watch how it's done.—A "peripatetic correspondent" in the "Lancet."



## ANALYSTS IN PUBLIC SERVICE

At the annual meeting of the London Section of the British Association of Chemists, held on May 31, the chairman, Mr. T. McLachlan, D.C.M., A.C.G.F.C., R.I.C.), in an address on "The Chemist in the Public Health Service," said:—

If the conditions of chemists employed in public health work are examined, it is realised immediately that their status is at present in a most unsatisfactory position. The Chief Chemist and the Chief Alkali Inspector at the Ministry of Health rank for salary purposes on the same level as an ordinary Medical Officer of Health, there being six higher grades of medical officers above this rank. At the London County Council the chief chemist is again ranked as a third- or fourth-grade officer in the Public Health Department. Both the Metropolitan Water Board and the Metropolitan Police Laboratory consider that it is essential to have a medical director in charge. Many hospitals employ biochemists, but it is almost invariably found that if the chemist does not possess a medical qualification he is placed as a subordinate to the pathologist or to some other medical officer. With the preparations for the present war the Ministry of Health saw fit to make yet another inroad into the work practising chemists by establishing the Emergency Chemical Services and advising Local Authorities to send waters to these laboratories for examination, thus duplicating a service which was already provided.

### Medical Control

The position of public analysts and official agricultural chemists has not improved recently. Previous to the passing of the 1938 Food and Drugs Act there was no provision for the assumption that the medical officer had any jurisdiction over the public analyst, but this Act, being a consolidating Act, has brought together certain functions (including those of the condemnation of unsound meat and the investigation of cases of food poisoning), where it is laid down that the Medical Officer of Health shall be responsible and, in inference, certain medical officers claim that the public analyst has now been placed officially under their jurisdiction. The possibility of this claim being made is strengthened by the fact that the appointment of public analysts is frequently delegated to the Public Health Committees of Councils, and that these committees are usually dominated by the Medical Officer.

With the advance of knowledge more is known about the effects of food treatment and its nutritional aspects, whilst the methods of adulteration and sophistication have also become more refined. These have, in turn, increased the difficulties and the responsibilities of public analysts, resulting in the expenditure of considerably more time and the use of elaborate apparatus for their work, and yet it is found generally that, if anything, so far from their remuneration being increased there has been a tendency to reduce it. It may be said that it is just as well for official chemists to be badly paid because it will attract better chemists to industry, but that is a very short-sighted policy. Admittedly, if industry is prepared to offer larger sums to chemists than the Government and local authorities, industry will attract the more progressive man, but industry also watches the salaries and conditions of employment of official chemists, and sets its standards by them. If officialdom places the knowledge and work of chemists on a lower plane than that of members of the legal profession, medicine, engineering, etc., it follows that industrial companies will probably think along the same lines.

## PARLIAMENTARY NEWS

**Reinstatement in Retail Business.**—In the House of Lords, recently, Lord Winstone introduced a Reinstatement in Retail Business Premises Bill, under which a "war-service person" will, on discharge, be entitled to retake possession of premises on the same terms and conditions as before, provided the premises are unoccupied. "War-service persons" include not only men in the Forces, but also those doing full-time Civil Defence work, in the Merchant Navy, or directed into industry.

**Production of Penicillin.**—The Minister of Supply was asked on May 18 whether he was in a position to report on the possibility of producing penicillin in any bacteriological laboratory having a trained staff.

The Joint Parliamentary Secretary to the Ministry of Supply, in reply, said that small quantities of penicillin in its crude filtrate form could be produced in any bacteriological laboratory. This penicillin could be used for treatment in certain classes of case under special medical supervision. Such laboratories would not be able to make any significant amounts of pure penicillin for general distribution.

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L. CXLI JUNE 3, 1944 NO. 3356

*The fact that goods made of raw materials in short supply owing to war conditions are advertised in this paper or described in its editorial columns should not be taken as an indication that they are necessarily available for export.*

## "Clamours for Information"

a plea that no pharmaceutical advantage could be gained by broadcasting the discussions of the Council and its committees on many of the problems now before members of the Pharmaceutical Society, the "Pharmaceutical Journal" (May 27, 1943) wondered "just how disinterested are these clamours for information, and whether they are not made by individuals whose primary concern is with the grocer, the ironmonger, the chain store, or with proprietary medicines!"

Who are these individuals? If there are "Quislings" in the ranks of pharmacy let them be known to all members of the Society, but if, on the other hand, there is no justification for the charge, let the fact be given equal publicity, so that the sinister suggestion made by our contemporary may not fester and spread suspicion and disunity within the profession. Several prominent pharmacists have expressed themselves recently on this subject, and we will put the question plainly to them.

Mr. F. G. Wells, you have been for four years the vice-president of the Pharmaceutical Society and a member of its Council since 1928; recently members again showed

their confidence in you. You are also vice-chairman of the Middlesex Pharmaceutical Committee. In your election statement this year you announced yourself as "in favour of more publicity being given to the Council's proceedings." Is it to be understood that your primary concern was with the grocer?

Mr. John Gilmour, you are a regional officer of the National Union of Distributive and Allied Workers, a member of the Central Pharmaceutical War Committee and of the Joint Industrial Council for Retail Pharmacy, and were recently a candidate in the Society's Council election. In your campaign you "unequivocally declared a policy of full and frank discussion of pharmaceutical matters in open Council." Was it your intention to secure information useful to proprietors of chain stores? It does not seem probable.

Mr. G. H. Armitage, you have taken an active part in the affairs of the National Pharmaceutical Employees' Union. When you put up recently for the Council you declared that there was "too much hush-hush policy, and the secrecy in consequence in pharmaceutical matters in the Press is having a bad effect." A bad effect on whom, Mr. Armitage? On the manufacturers of proprietary medicines? We had taken it that you were referring to the membership of the Society.

## In Whose Interests?

Mr. Harry Ridehalgh, you are an employee pharmacist and the present secretary of the Bournemouth Branch of the Pharmaceutical Society. You were also an unsuccessful candidate in the recent election of seven members of the Society's Council, and in your address to members you urged that the Council should abolish secret sessions. In whose interests should they be abolished, Mr. Ridehalgh? In the interest of ironmongers? Is it their affairs you have at heart?

Mr. B. M. Kelly, you have been described as a "live member of the Liverpool Chemists' Association," and you recently called for "the fullest instruction for members on the policies of the Council." Surely, Mr. Kelly, you realise that it would be dangerous for you to discuss your own affairs. A chance

disclosure by you of the Council's secrets might provide an enemy with ammunition.

We could go on. Doubtless many members in all parts of the country have echoed the desire that greater publicity should be given to the Council's discussions, but those we have cited are the ones whose "clamours for information" have appeared in print and are, presumably, the "individuals" to which the Society's journal refers. Can the accusation be justified? We think not.

## Merchants and Their Future

As briefly reported last week (p. 559) the British Federation of Commodity and Allied Trade Associations has issued a comprehensive booklet the object of which is to call attention to the services rendered by merchants, and to dispel any misconceptions that might exist regarding the workings of organised markets. Merchants, indeed, have suffered in this country to an extent perhaps greater than have most classes from the imposition of controls on commodities. In many instances marketing organisations and machinery, created and developed by generations of British merchants, have been brought virtually to a standstill. While it is realised that the policy of delegating to Government departments the powers to control commodities may be necessary to facilitate the war effort, there is a danger that such emergency measures may be unnecessarily prolonged into the post-war period, to the detriment of trade recovery.

### Markets Must be Free

The British Federation of Commodity and Allied Trade Associations has performed a useful service by including in its booklet a statement of the true functions of merchants, a point on which there appears to be much misunderstanding. Readers of the booklet will have no difficulty in appreciating the importance to the national economy of the special services rendered by merchants, or in realising the wisdom of restoring freedom to the organised markets as speedily as possible after the war. Nevertheless, as the Association points out, it will not be practical to decontrol commodities immediately on the termination

of hostilities, nor will it be possible to decontrol them *en bloc*. With each commodity there are peculiar traditions and customs, which may, indeed, vary in different parts of the world. Decontrol will have to take into account the circumstances peculiar to the commodity, and the Federation urges that policies adopted at every stage of decontrol should be decided only after full consultation with the trade association concerned.

In a comprehensive explanation of the structure of the futures markets, the claim is put forward that, in staple commodities, they form an essential part of the trading machinery for the protection of producer and consumer alike. Active, efficient and well-conducted markets cannot fail to attract world trade, while the absence of futures markets would result in a loss of income to British nationals and of revenue to the country from "invisible" exports. It is recommended that executives of futures markets in this country should tighten the rules designed to exclude irresponsible operators. Futures markets should be, in the opinion of the Federation, be recognised by the Government as a trading necessity.

## Grey Matter

IN discussing, at one of the meetings of the Manchester Philosophical Society, "The Anatomical Localisation of the Soul, 1640-1940," Professor Geoffrey Jackson approached the subject from a mathematical standpoint. One-sixth of the brain weight, he said, could be removed without loss of quality. Applying the method to the conclusions of earlier speculators, who located the soul in the pineal gland (Descartes), the head ("Tell me where is fancy bred, or in the heart or in the head?"), the solar plexus (D. H. Lawrence in the 1920's), or some other organ, one might determine whether the loss of one-sixth the weight of any of these organs could be sustained without detriment to the personality. It is, of course, necessary to agree upon what constitutes the soul. Professor Jackson seems to have assumed too readily that it is the mind, and therefore resident in the brain, "though not in any particular section of it."



# MINERAL-OIL CONTROL OF INFECTIONS

SYMPOSIUM on the 'control of dust-borne infections in hospital wards is included in "British Medical Journal," May 6 (1944, 611-617). Wright and others report that in a test ward during a three-weeks' preliminary period the floor alone was oiled; in a subsequent nine-weeks' period bed-clothes, garments, and all other linen and cotton articles in ward use were treated regularly with emulsions of mineral white oil, and the floor re-oiled at intervals. In another "control" ward no anti-infection measures were taken. In both wards the air was sampled for total bacteria and for hæmolytic streptococci during bed-making and sweeping, and the streptococcal cross-infection and complication rates were recorded and analysed. When the floor alone was oiled, the type-6 cross-infection laid off was 58.1 per cent., against 53.3 per cent. in the "control" ward, and it is concluded that oiling of floors alone is insufficient to control the spread of dust-borne hæmolytic streptococci in the measles wards in which such tests were carried out. When the full measures were applied, the mean hæmolytic streptococcus count in the air during bed-making was reduced in the test ward by 75 per cent. The mean bacterial count in the test area was 91 per cent. below that of the "control" ward and the mean hæmolytic streptococcus count 98 per cent. below. In the air during sweeping the mean bacterial count was 92 per cent. less, and the mean hæmolytic streptococcus count 99 per cent. less, than in the "control" ward. The type-6 cross-infection rate was 18.6 per cent., although the latter rose to 73.3 per cent. in the "control" ward. On the results, oiling of all bed-clothes, ward linen, etc., in addition to the oiling of floors, is claimed to be effective for the control of dust-borne streptococcal infections in measles wards.

## Emulsions

Harwood and others described a process by which it had been found possible, with suitable emulsifiers, to oil hospital bed-clothes to any required degree by means of emulsified oil-in-water emulsions. Anderson and others report an average rate of respiratory infections of seven per thousand men in a large military unit in which wooden floors were treated with spindle oil at regular intervals, against thirty-eight per thousand men in a "control" unit.

The U.S. War Department has announced that a highly promising odourless, greaseless, non-sticky oil treatment for floors,

blankets and bedding has been developed in researches carried out by medical scientists for the Office of the Surgeon General of the Army. Tests at Camp Carson, Utah, and Peterson Field covered 16,000 men, and indicated that respiratory ailments could be reduced 28 per cent. by keeping the floors of barracks oiled and soldiers' blankets impregnated with the oil film. In hospital wards, oiling the floors cut airborne bacterial counts from 460 to 120 per cu. ft. of air—a decrease of 74 per cent. In bed linen the oil treatment was even more effective, the bacterial counts decreasing from 3,500 to 350 per cu. ft. of air—a drop of 90 per cent. When both floor and blankets were oiled, 97.2 per cent. of the bacteria were trapped. The treated floors cost little and each treatment is effective for four months. For blankets the treatment lasts at least two months. Oil is applied in the final rinse of the laundering process in the form of a whitish emulsion containing mineral oil and oleic acid. The film adds from 1 to 2 per cent. to the weight of the blankets, and makes them warmer.

## RECENT RESEARCH

**Synthetic Menthol.**—A new method of producing synthetic menthol is stated to have been developed at Purdue University, U.S.A. ("Chemical Industries," January). The method is a distillation process, starting with hydrogenated thymol. Menthone is produced first, and this is then reduced to synthetic menthol. The process is said to eliminate isomers; the product is claimed to have the taste and odour of natural menthol.

**Anthracene Derivatives in Drugs.**—J. W. Fairbairn, in the annual report of Research Work of the College of the Pharmaceutical Society, proposes the following method of testing for anthracene derivatives in cascara, rhubarb, aloes, etc.:—

Boil 0.1 gm. of the drug in powder or small pieces with 5 mls of sulphuric acid (10 per cent.) for at least two minutes. Filter while hot; cool the filtrate and shake gently for a minute with an equal volume of benzene. Allow the benzene layer to separate completely from the lower aqueous layer and transfer the benzene layer to a clean test-tube, add half its volume of ammonia solution (10 per cent.), shake gently and allow to separate. If anthracene derivatives were originally present, the lower ammoniacal layer will have acquired a delicate rose-pink colour.

Liquorice tends to interfere with the test, and Zanzibar aloes does not respond.

# THE DISPENSARY I WOULD LIKE

by A. A. Wompra, M.P.S.

**M**OST of us have, at some time, worked in both good and bad dispensaries. So far as my own experience is concerned, it is no exaggeration to say that, comparing the best with the worst, it was possible to dispense twice the number of scripts in the former as in the latter, in the same time and with less fatigue. What is the ideal? I have recently been privileged to see some models incorporating many improvements, and it is probably no coincidence that the most outstanding of these was made by the pharmacist who is now in charge of the best dispensary in which I, personally, have worked. It seems unlikely that anyone will produce a design to suit every taste. So much is evident from the replies to the recent *C. & D.* questionnaire. The design described here is based on my own conception of future dispensing requirements and an average of 250 scripts per week per dispenser. It was produced after careful analysis of the models and correlation of data from numerous workers.

## Aims in View

By applying sound principles to dispensing, labour can be reduced to a minimum. My plan therefore aims at:—

1. Reducing cleaning by using as little open shelving as possible.
2. Avoiding unnecessary movement for the dispenser by grouping items which are used together (e.g. ointments with ointment boxes and jars), and siting drugs and fixtures with due regard to frequency of use.
3. Arranging shelves for easy vision and selection, and avoiding waste of room.
4. Providing flexibility of output capacity.
5. Eliminating unnecessary work.

The size of the suggested dispensary is 13 ft. 6 in. by 10 ft., with stainless-steel bench along two adjacent sides. The dispensing bench occupies the whole of the front with the exception of the entrance, to the right of and continuous with which is a smaller bench, with fitted raised stainless-steel ointment slab, provided with an electric heating element (for softening, not melting) and a rack for spatulas. Sixty different ointments are stored in the cupboards below the bench, and a supply of chip boxes is arranged in delivery slots above, together with racks of pots. The bench also accommodates an inlet stainless-steel evaporating pan, also electrically heated, and this serves as a water bath. A 2-lb. scale

and four drawers for bulk powders are provided in this section, together with slots for bags. An autoclave could be added to the type of business required it, and cupboards above are used for general poisons storage.

At the opposite end of the dispensary all tablets and pills are housed in cupboards with separate poison section and, again, delivery slots for boxes. Small broken bulk items are contained in shallow trays within the cupboards, and a 6-in. shelf bench level is provided for handling. To the right, adjacent to the entrance, are clips for new scripts, shelves for finished products and a container for dispensed National Health Insurance forms. To the left is the Dangerous Drugs Act cupboard (calculated maximum capacity 108 bottles, including nine of 1-lb. size). Below bench level, for sliding cupboards provide storage for 20 drugs, including ten winchesters.

## Dispensing Unit

The dispensing bench is 9 ft. 6 in. by 2 ft. and includes a desk and a sink, leaving 5 ft. of actual bench space. The desk is on the left, with slots for ten popular labels at the back. Below this is the label drawer, with provision for forty-three different labels and under this are spaces for prescription books. Below these is a cupboard for utensils. Next to the desk is the stainless-steel sink, with measure rack above, and with hot and cold taps on the right. Foot pedals are provided for alternative operation of the taps, and there is a really effective trap in the waste pipe in a position of easy access. Below the sink is a slot delivering into a waste bin housed in a cupboard; this also provides room for more utensils. The remaining 5 ft. of bench is free, but contains sunk receptacles for three popular sizes of corks, and two gas taps. Below these are the bottle racks, with adjustable shelves, and the cork drawer is on the right of the dispenser. At the base, a recess for the dispenser's feet runs the whole length of the bench. Chloroform and peppermint waters are supplied from 1-gall. containers on a shelf high above the bench. Stainless-steel pipes, with flexible connexions, are fitted for the purpose, with their outlets over the sink. Distilled water is pipe-fed from a 5-gall. carboy in the room above. Above the desk is a cupboard for books of reference, makers' lists, pre-

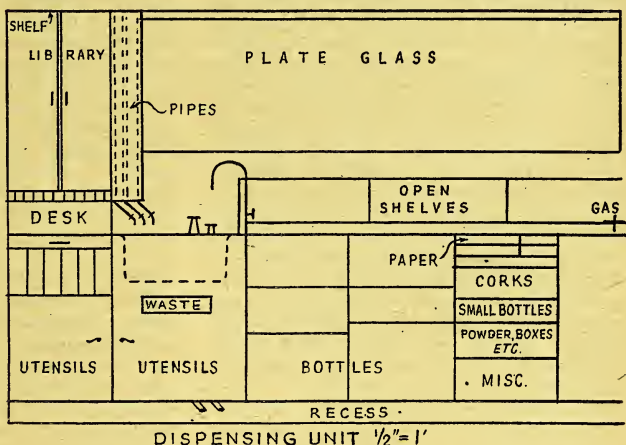
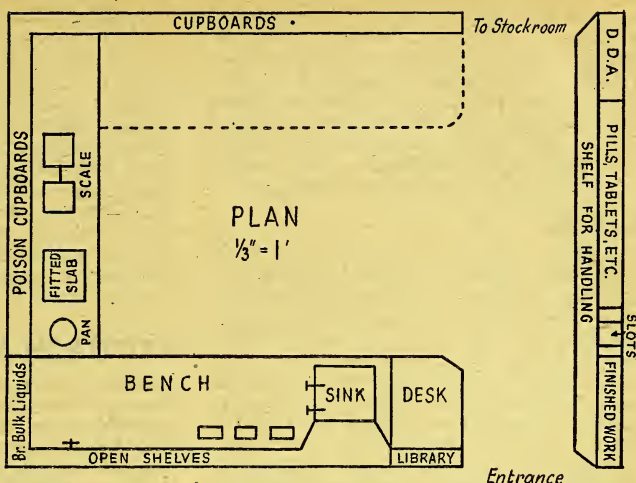


options, D.D.A. and Schedule 4 files, with a special pigeon-hole for spots awaiting completion. Above the bench are two open shelves, including a poisons section, and these hold ten, thirty 8-oz., thirty and six 2-lb. rectangular bottles. The lower shelf is raised only 1 in. above the bench, at the back edge of the bench is curved upwards to join the shelf.

Stage

A feature of the design is that the two shelves above the dispensing bench, together with the racks and spaces for finished work, constitute the only open shelving. It is found in practice that surprisingly few drugs are required in order to dispense a large proportion of the prescriptions received. Careful checks in my own dispensary show that the element and powder section, with the pill, tablet, D.D.A. and proprietary section, plus only twenty drugs, suffice for dispensing over 80 per cent. of pre-typed scripts. With a range increased to twenty drugs, the proportion capable of being

dispensed is increased to over 90 per cent. The remainder of the drugs are stored in cupboards, and the saving of labour in minimizing dusting will be appreciated. Shelving and cupboards have been designed after carefully estimating the frequency of use of the drugs they have to accommodate. How often it is found that, for example, the D.D.A. cupboard will not take an extra 1-lb. bottle or, conversely, that there are 2 in. of wasted room between the tops of the bottles and the next shelf? In the design described, the shelves are arranged to take the calculated number of bottles of a given size, ease of access and stability being ensured by having all bottles in single rows only. All shelves are of non-



staining material, and versatility is achieved by having movable shelves in some of the cupboards, to accommodate changing methods in prescribing. The cupboard doors are either well-fitted "sliders" or of the "fold-back" type, according to position; those above bench level are of glass. No shop rounds are provided. Warehouse containers of attractive design will, it is hoped, be available, and these are labelled clearly in front, with details of dosage, synonyms, etc., behind. A considerable amount of labour in handling the drugs is thus saved, and there is no danger of contamination with old stock. A further consideration is protection from light. On checking up in one well-equipped dispensary, it was found

that, of the drugs which the Pharmacopœia directs to be stored away from light, twenty-five were stored in clear-glass shop rounds. The containers intended are rectangular in shape and labelled on their narrow sides. Round bottles waste too much space. For example, a given shelf will take eight rectangular 8-oz. bottles per foot, but only five 8-oz. rounds.

### Capacity

The three sides of the dispensary so far described provide adequate storage for general use. It is suggested that the upper cupboards of the fourth side are used for packed lines and the lower ones for B.P.C. dressings, etc.

Omitting to use this side for drug storage is intentional. The dispensary, as illustrated, provides accommodation for one dispenser, but the dispensing bench is a complete unit in itself, and an exactly similar unit can be incorporated along the back if it should prove necessary to employ two dispensers. In this case the items stored in the lower cupboards would have to be transferred elsewhere. Some such flexible system is desirable if provision is to be made for expansion and, at the same time, unnecessary expense is to be avoided at the outset. The position of the dispensary in relation to the rest of the pharmacy has to be carefully considered. Bearing in mind that it is, or should be, primarily designed for the convenience of the dispenser, it should also be convenient for the taking in and out of scripts, and the drug stock-room should adjoin it. I believe it should also be the most prominent feature of the pharmacy, serving to advertise the craft, and my suggestion is that it should occupy the whole of the back of the shop, with a plate-glass window along most of its length. Enamelled cream and with adequate lighting, such a semi-open dispensary becomes the focus of interest to all who enter the pharmacy. I have worked mainly in this type of dispensary, and have never found the fact that operations are visible to the public to be of any disadvantage.

Lighting deserves special attention, and should be of the shadowless fluorescent type, so that the dispenser is not working in his own light, nor is troubled by glare. Adequate ventilation should also be provided. It is suggested that, if the premises are suitable, the upper cupboards along the back should be replaced by a long, 2-ft. deep window. This would let in the sun and allow easily controlled ventilation.

### Contact with Customers

Waiting rooms do not seem, from experience, to be greatly appreciated by the public. Of five existing waiting rooms which I have knowledge, only one is useful to any extent. I have worked in the pharmacy at which it is situated, and can speak from personal experience of one big advantage. The sliding glass serving-hatch is directly in front of the dispenser, and is continually breaking off to take in scrips or hand them out. It is desirable that handing in and out of scripts should be undertaken by counter assistants.

## STOMACH WORMS IN SHEEP

PARASITIC worms are the greatest single cause of loss to the sheep industry of the country, being specially prevalent in lambs about weaning time. The Ministry of Agriculture has issued a leaflet, No. 275 (H. Stationery Office, Kingsway, London, W.C. price one penny), setting out the symptom control measures, and methods of treatment. The typical symptoms of gross infestation in lambs about six months' old are well known. First a few and, later, nearly all the lambs cease to thrive; diarrhoea appears, and increases till they become too weak to stand. Death finally supervenes. A chronic form of the infestation, not so well recognised, causes great loss than the more acute type.

### Control and Treatment

Under conditions of crowded grazing, the sheep constantly pass eggs out on the pasture, which thus becomes a storage place for the parasites. Phenothiazine is now recommended for treatment, in place of the bluestone and nicotine mixture formerly popular. The new compound is safer and acts on more varieties of harmful stomach worms. Doses are as follows: For ewes four to six tablets (5 gm.); lambs, 6-months, three to four tablets; lambs, 3-months, two to three tablets; lambs, 2-months, one to two tablets. The tablets are given by means of a balling gun (not by an improvised measure involving the use of a stick, which may injure the sheep's throat). Every member of the flock is treated whether it shows symptoms or not. The second dose is given a week later, and, if necessary, a third dose is given after a fortnight's interval. Wherever sheep are kept stomach worms are present; and since lambs, especially at weaning time, are more susceptible than adult sheep to infestation, routine dosing of lambs is recommended.



## NEW BOOKS

**Var-time Information for Pharmacists.**—n. by 5 in. Pp. 81. 1s. 6d. The Pharmaceutical Press, 17 Bloomsbury Square, London, W.C.1. Of the 308 entries, eighty new, and 120 have been revised. 109 statutory Rules and Orders are summarised. These bring the information well to date and this third edition will take place as a handy and useful work of reference for the busy pharmacist.

**Dictionary of Organic Compounds.**—I. M. Albron and H. M. Bunbury. 9½ in. by 7 in. ss. II and III. Pp. 891 and 977, respectively. Each volume (£15 15s. the set of 3) £6 6s. Eyre & Spottiswoode, Publishers, Ltd., 15 Bedford Street, London, W.C.2. These two volumes, dealing with compounds from ecaine to hydgadenine, along with the recently issued and enlarged volume I, complete a monumental work on developments in organic chemistry. Owing to the war it has been impossible to revise these last two volumes and, as they were out of print, they have been reprinted. Additional information and new compounds readily collected will be issued as supplements. Most organic compounds have more than one name, and questions of orientation produce a further complication. Many terms both of nomenclature and orientation have been suggested, but up to the present have not been officially adopted. The authors, although giving no special preference to any one system to the exclusion of all others, have been remarkably successful, by generous use of cross-reference, in reducing ambiguity to a minimum.

**The Pharmaceutical Pocket Book.**—7 in. by 4½ in. Pp. 427. 10s., postage 4d. The Pharmaceutical Press, 17 Bloomsbury Square, London, W.C.1. This volume is the thirteenth edition which has appeared since the late Mr. John Humphrey edited the first edition in 1906. Since then the book has taken a recognised place in pharmaceutical literature as a reference book for the practising pharmacist and as an introduction of the fundamental principles of pharmacy to the student. The present edition has been completely revised under the supervision of the Codex Revision Committee, and there are many notable additions. The notes on forensic pharmacy have been increased to include the many subjects relating to Dangerous Drugs, National Health Insurance, etc., and this section now forms a complete summary of the legislation covering the profession of pharmacy. Considerable changes have been

made in the sections on biochemical analysis, bacteriology, nutrition and endocrine organs in the light of more recent knowledge. Altogether the volume has been brought well up to date, and is a worthy follower of its forerunners.

**Industrial Publicity.**—C. K. Shaw. 10 in. by 7 in. Pp. 438. £5 5s. C. & J. Temple, Ltd., 20 Tudor Street, London, E.C.4. Industrial publicity (I.P. for short in this book) has little to do, it should be explained, with advertising as ordinarily understood. Its function is not to increase sales (complete absorption of output is taken for granted) but to stimulate production by improving "morale" of factory workers. A whole section of the book (four chapters, 26 pp.) is devoted to explaining that I.P. is "any form of activity which by psychological approach to the worker gives an impetus to output." Workers would perhaps be flattered, and many employers probably surprised, at the number and variety of the "forms of activity" by which the "psychological approach" is made. They occupy the whole of Part II of the book (nineteen chapters, 266 pp.) and range from posters to factory "honours lists," from works visits to mural paintings, from broadcasts to works magazines, taking in on the way films, "music-while-you-work," and the synchrophone—a gramophone working in time with a small cine screen. A third part of the volume deals with planning campaigns, arranging competitions, collecting salvage, avoiding absenteeism, and preventing accidents; and a fourth and final part with the future of industrial publicity. ("Every factory, large or small, should have its Works Relations Officer.") In its wealth of informative material the work is encyclopædic, and the number and variety of the illustrations demonstrate the author's diligent endeavour to give really good value for the relatively high price. The presentation, perhaps, is a little indigestible. The type face selected makes the pages tiring to read—an effect which frequent recourse to heavier or lighter variants, and/or capitals, by way of emphasis, does little to relieve. The reproduction method adopted (photo-lithography) gives pleasing results in many instances but, by reducing contrasts, also tends to monotony. So much of the subject is new and experimental, however, that the author may be forgiven the faults of an enthusiasm which, it may be hoped, will infect the industrialists and others who buy the book.

## GOVERNMENT VIEW ON SCIENTIFIC RESEARCH

STATING the Government's views on "Research and Scientific Knowledge" in the House of Commons recently, Mr. Attlee (Lord President of the Council) said, *inter alia*:—

It has often been said that Britain has tended to fall behind other countries in the quantity of her scientific output and the number of her scientists. It is quite true that other countries have more numerous bodies of scientists, and devote more money to science, but there is no doubt whatever—and this war has shown it—that in quality we fully hold our own. We should recognise the great asset which we have in the brain-power in this nation, and that we should make full use of it in the post-war period.

### Full Use of Science

I can assure the House that the Government are fully alive to the fact that the winning of the peace, just as the winning of the war, will largely depend on a full and a right use of the scientists and of scientific organisations. The Government should give assistance, and should take a lead, but it is not a thing which can be left to the Government. Government support for research must be backed by a readiness to use the results of that research. It must be backed by public opinion, and the nation must become more aware of its importance. Science should not be something suggested as a kind of afterthought. The country should be utilising scientific methods through all its activities of Government and of industry.

### Towards More Refined Products

It is the nature of a highly industrialised country like Britain that it should gradually move away from the older, the coarser, the simpler products towards the more refined ones, and all must acquire the readiness of mind to do so. It is not enough to have highly skilled scientists in universities or even in research institutions. There must be receptive minds in those who are carrying on industry. The great advantage of co-operative research organisations is that they make for a lively interest by those people who are contributing. Some industries have been far ahead of others in making use of these facilities. Some have been very slow, but there has been a quickening recently. The development of these research organisations has not been conditioned by any reluctance on the part of the Treasury to find funds. I readily recognise

that there has been a great awakening recently. There was a stimulating pamphlet by Sir Harold Hartley and there have been very valuable reports by the Federation of British Industries and by our Parliamentary Scientific Committee. The Trades Union Congress has also been showing great interest.

### Developing New Inventions

There is another matter which has been engaging the attention of the Government. That is the need for the establishment of a fund of some kind to meet the cost of developing new inventions and of providing facilities for testing new ideas for industry. The Government recognise that need and the way to meet it is under examination.

I would now like to turn to the request for generous support from the Government for the extension of teaching and research at the universities. Here again, the Government are entirely in favour of the spirit of that request. It has been said, rightly, that you cannot separate applied science from pure science. Pure science must flourish on at the different universities, and there is a fund to give the financial support that is necessary. The Government recognise that it is quite obvious that there will be much greater expenditure both on fundamental research and on teaching at the universities. I do not think it is recognised quite how much is done by the Government.

### Adequate Supply of Personnel

We have to see to it that in the post-war world there will be an adequate supply of teachers and research workers. The question of supply is being considered by the Nuffield Committee, and the question of demand is being investigated by the Hankey Committee. We must have an adequate supply, and we must draw on the whole of the community. No one can tell in what garden the flower of genius will blossom.

The point has been raised of adequate payment for the scientific worker. I think the reward has been insufficient in many cases hitherto. The whole question of the relation of the payment made to scientists in Government employ in relation to other Government employment of similar status is now being carefully inquired into, and already steps have been taken to raise the remuneration of the heads of research institutions. It has been suggested that we should have a Ministry of Science. I think that would be a great mistake.



## TRADE REPORT

ot quotations for pharmaceutical chemicals, crude drugs and essential oils represent prices for wholesale quantities of standard quality. C.i.f. quotations do not include fine war risk insurance and other abnormal charges payable in the present emergency

### 28 Essex Street, W.C.2, May 31

E month of May has passed without changes of major importance having occurred in the London drug and chemicals markets. Here and there prices have shown tendency to fluctuate, but generally the price level has remained consistent throughout. Few alterations are noticeable in the supply position, which continues difficult for some items. On the other hand, import licences have been recommended for a number of crude drugs, and the position, in far as these are concerned, will be eased in due course. Two important PHARMACEUTICAL CHEMICALS—TARTARIC ACID and TEAM OF TARTAR—have come under control during the month, but otherwise interest in this section has been somewhat lacking. Price changes announced this week concern METHYLATED ETHERS, which are slightly reduced, and LACTATES, which are advanced. It should be noted that some of the gravities of methylated ethers will no longer be available, as it has been decided to discontinue certain of them in the interests of economies in labour, transport and raw materials. Details of the curtailment, together with the revised price schedule, are given. THEOBROMINE and CAFFEINE have been reduced, and it is hoped to publish the revised schedules next week.

### Crude Drugs

These markets have reopened after the holiday break on a quiet note, with business mostly unimportant and prices steady. The position of BALSAMS is unchanged, with OIL temporarily unobtainable. Indian SELLADONNA leaves are in short supply, and the price is nominal. BENZOIN is scarce and reserved for medicinal purposes. CUCURBIT is in small supply on spot. CARDAMOMS is neglected. CHILLIES is steady, with COMBASA the only variety offered. First-hand supplies of COCHINEAL are exhausted, but new allocations have been granted. No change has occurred in the price or supply position of ERGOT. Russian LIQUORICE ROOT may be obtained for pharmaceutical purposes at unchanged rates. MENTHOL remains in good demand, but supplies are difficult to locate. Some ORANGE PEEL may still be obtained on spot. RHUBARB is tending dearer. SEEDS are quiet and without quotable change on the week.

### Import Licences Recommended

The Directorate of Medical Supplies has informed the botanical drug importers' section, London Chamber of Commerce, 69 Cannon Street, London, E.C.4, of its intention to recommend import licences for limited quantities of CANNABIS INDICA, GENTIAN ROOT, GRINDELIA, HYDRASTIS and UVA URSI during the period ending May 31, 1945. The section has been asked to arrange with the importers concerned for their importation, and will therefore be glad to hear, not later than June 9, from firms which, during the years 1936 to 1941 inclusive, imported any of these drugs. By "imported" is meant arranged the shipment and paid the overseas supplier.

### Essential Oils

Prices of ESSENTIAL OILS show no alteration on the week, and business continues quiet and of a routine kind. High prices are being asked for any available supplies of ANISE (STAR) and PEPPERMINT. English-distilled CLOVE and NUTMEG are steady and unchanged. No alteration has been notified in the position of controlled essential oils or fixed oils.

## Pharmaceutical Chemicals

ASPIRIN.—In fair demand at unchanged prices. Currently quoted rates per lb., in quantities of 28 lb.—1 cwt., are as follows (containers in brackets): 4s. (1-lb.); 3s. 10½d. (4-lb.); 3s. 9½d. (7-lb.); 3s. 9d. (14-lb.); 3s. 8½d. (28-lb.).

BARIUM SULPHATE, B.P. (x-ray).—Quoted at the following rates per lb. in quantities of 28 lb.—1 cwt. (containers in brackets): 1s. 5½d. (1-lb.); 1s. 4d. (4-lb.); 1s. 3d. (7-lb.); 1s. 2½d. (14-lb.); 1s. 2d. (28-lb.).

BISMUTH CO. PULV., N.F.—Makers' prices per lb., in quantities of 28-lb.—1 cwt., are as follows (containers in brackets): 2s. 3½d. (1-lb.); 2s. 2d. (4-lb.); 2s. 1d. (7-lb.); 2s. (28-lb.).

BORAX.—Makers' current rates are as follows: B.P. quality, granulated, £42 per ton; crystal, £43; powder, £43 10s. Packed in one-cwt. bags, delivered carriage paid in Great Britain in one-ton lots and upwards. Commercial grades, £8 per ton less.

CAFFEINE.—Reduced by 2s. 6d. per lb. as from June 1. Revised schedule will be published next week.

ETHERS (METHYLATED).—In order to effect the utmost economy in labour, transport and raw materials, the Ministry of Supply has indi-

cated to makers that the production of all gravities of ether higher than s.g. 0.720, viz., 0.730, 0.735, 0.750, etc., should be discontinued as from June 1. These gravities have, up to the present, been manufactured by "breaking down" ether, of gravity as distilled, with methylated spirits. It is thought that all needs should in future be met by the following gravities and qualities: (1) Ether, British Standard Specification 579, gravity not more than 0.725; (2) ether B.P. (not for anaesthesia), gravity 0.720 to 0.724; (3) ether anaesthetic, B.P. Technical ethers prices have been slightly reduced, as shown on the revised schedule below. No alteration is proposed in the selling prices of anaesthetic ether, B.P.

TECHNICAL ETHERS IN WINCHESTER QUARTS

Gravity	1 Win.	6 Wins.	12 Wins.	5 cwt.	10 cwt.	1 ton
S.g. 720 B.P. (not for anaesthesia)	s. d. 1 10	s. d. 1 9½	s. d. 1 9	s. d. 1 8	s. d. 1 7	s. d. 1 6
S.g. 720 B.S.S. (not B.P.)	s. d. 1 8½	s. d. 1 8	s. d. 1 7½	s. d. 1 6½	s. d. 1 5½	s. d. 1 4½

Carboys or drums one penny per lb. less than corresponding winchester quart price.

**IODINE PREPARATIONS.**—Prices per lb. for the home market are as follows: POTASSIUM IODIDE, B.P.—112 lb., 9s.; 28 lb., 9s. 6d.; 14 lb., 10s.; 7 lb., 11s. 6d.; 4 lb., 12s.; smaller quantities, 12s. 6d. SODIUM IODIDE, B.P.—28 lb., 9s. 11d.; 14 lb., 10s. 5d.; 7 lb., 12s. 2d.; 4 lb., 12s. 10d.; smaller quantities, 13s. 8d. IODOFORM, B.P.—28 lb., 12s. 10d.; 14 lb., 13s. 4d.; 7 lb., 15s. 6d.; 4 lb., 16s. 4d.; smaller quantities, 17s. 2d. IODOFORM CRYSTALS.—2s. per lb. above powder prices. IODINE RESUBLIMED, B.P.—112 lb., 10s. 4d.; 28 lb., 10s. 10d.; 14 lb., 11s. 4d.; 7 lb., 13s. 1d.; 4 lb., 13s. 9d.; smaller quantities, 14s. 6d.

**LACTATES.**—New prices are as follows: LACTIC ACID.—Six-winchester lots, 2s. 10d. per lb.; smaller quantities, 2s. 11d. CALCIUM LACTATE.—Small quantities, 2s. 3d. per lb. CALCIUM SODIUM LACTATE.—Powder, small lots, 3s. 5d. per lb.; 14-lb., 3s. 2d.; 28-lb., 3s.; granular, one penny per lb. extra.

**MERCURY IODIDES.**—The following are makers' prices per lb.: RED, less than 7 lb., 20s. 8d.; not less than 7 lb., 20s. 2d.; not less than 14 lb., 19s. 8d. GREEN, less than 7 lb., 28s. 8d.; not less than 7 lb., 26s. 2d.; not less than 14 lb., 25s. 8d. YELLOW, less than 7 lb., 28s. 1d.; not less than 7 lb., 27s. 7d.; not less than 14 lb., 27s. 1d. net, carriage paid.

**PHENOLPHTHALEIN.**—Makers' prices are steady as follows: Less than 7 lb., 4s. 6d. per lb.; 7 lb., 4s. 5d.; 14 lb., 4s. 4d.; 28 lb., 4s. 3d.; 1 cwt., 4s. 2d.

**PILOCARPINE.**—Makers quote at the following rates per oz.: Base, 1 oz., 27s.; 4 oz., 21s. 3d.; 8 oz., 20s. 9d.; 25 oz., 20s. 3d. NITRATE, 1 oz., 18s. 6d.; 4 oz., 18s.; 25 oz., 17s. 6d.

**THEOBROMINE.**—Reduced by 4s. per lb. as from June 1. Revised schedule will be published next week.

## Crude Drugs

**AGAR.**—Price is controlled at 30s. per lb. It is understood that some small business being done at that figure.

**AMMONIACUM.**—Dealers can offer spot supplies of ordinary drops at 2s. per lb.

**ARECA NUTS.**—Spot price is unchanged 115s. per cwt., ex store.

**BALSAMS.**—There are no spot stocks of *Tolu* but allocations for further supplies have been granted. *Peru* is steady at 7s. 9d. per lb., and *Canada* at 10s. *Copaiba* is unobtainable.

**BELLADONNA.**—Spot supplies of Indian leaf are difficult to find, and the price would be nominal at 5s. 3d. per lb.; Indian root, spot 0.36 per cent., 330s. per cwt.

**BENZOLIN.**—Price would be in the region of £35 per cwt. for any remaining supplies, for B.P. purposes.

**BUCHU LEAVES.**—In small supply on spot; approximately 5s. 3d. per lb.

**CAMPHOR.**—Chinese crude, in limited compass, can be obtained by users at 10s. per lb. B.P., also in small supply, 11s. 6d., subject to D.M.S. approval.

**CARDAMOMS.**—Aleppy greens would fetch 5s. 6d. per lb. on spot, and Aleppy seed, 6s. 6d. split seed, 5s. 6d.

**CHILLIES.**—Mombasa continues to be the only variety offered; price is steady at 115s. per cwt., sellers.

**CLOVES.**—Zanzibar, quoted on spot at 1s. 2½d. per lb.; to arrive, unquoted.

**COCHINEAL.**—First-hand supplies of black are exhausted, but new allocations have been granted.

**COCOA BUTTER.**—Fixed price remains at 1s. 5½d. per lb., ex factory or warehouse, except for sales made under Ministry of Food licence.

**DIGITALIS LEAVES.**—Spot quotation for Portuguese leaves is steady at 140s. per cwt. English-grown leaves, 2s. 6d. per lb.

**DRAGON'S BLOOD.**—Spot supplies are practically exhausted; dull Zanzibar drop, if available, would fetch £25 per cwt.

**ERGOT.**—In short supply on spot; price would be around 6s. 6d. per lb., according to holder.

**GUM ACACIA.**—Kordofan cleaned sorts, spot, 80s. per cwt.; bleached, shipment, 140s., c.i.f.; Talha, cleaned, 30s. per cwt., landed.

**HENBANE.**—Indian leaf, spot, 250s. to 275s. per cwt., according to holder; some low-testing may now be had at 1s. per lb., and Russian leaf at 350s. per cwt.

**JABORANDI.**—Price is steady at 52s. 6d. per cwt., on spot.

**KAMALA.**—Material with 6 per cent. ash would be worth 1s. 10d. per lb.

**LIQUORICE ROOT.**—Russian root can be bought for pharmaceutical purposes at 85s. per cwt. Single-peeled Syrian, spot, 110s. per cwt., subject to D.M.S. approval.



**MENTHOL.**—Demand is maintained, but supplies are difficult to find.

**MYRRH.**—Spot price of any remaining supplies of good Aden sorts would be £20 per cwt.

**ORANGE PEEL.**—Spot stocks of bitter quarters are exceedingly small; price, 5s. per lb.

**PIMENTO.**—Sellers on spot at 1s. 5d. per lb.; shipment prices are not quoted.

**QUILLAIA BARK.**—Crushed or cut, spot, 90s. per cwt.; natural, 75s.; shipment, 65s., c.i.f.

**RHUBARB.**—Spot quotations for rough-round are steady at 10s. per lb.

**SARSAPARILLA.**—Small supplies of native red may be obtained on spot at 5s. per lb.

**SEEDS.**—Conditions remain quiet, with business on a restricted scale. Current rates are as follows: **CORIANDER.**—Indian, 75s. per cwt.

**MIN.**—Maltese, spot, 105s.; Indian, 100s.

**LL.**—125s., ex wharf. **FENNEL.**—Offered at 1s. 2d.; **FENUGREEK.**—May be had at 80s. **MUSCARD.**—Controlled prices are unchanged.

**SENNA.**—Alexandrian medium pods are at 1s. 2d.; Tinnevely, manufacturing grade, 1s. 2d. to 6½d.; hand-picked, 8½d. to 1s.; broken Alexandrian leaves, 1s. 3d. to 1s. 4d.; siftings, 1s. 2d.; Tinnevely, No. 1, 9d. to 10½d.; No. 2, 1s. to 7½d.; No. 3, 5½d. to 6d.

**SQUILL.**—Portuguese steady on spot at 75s. per cwt.; Indian, 67s. 6d. to 70s.

**STRAMONIUM LEAVES.**—Dealers offer East Indian leaves on spot at 80s. per cwt.

**STROPHANTHUS SEED.**—100 per cent. Kombé noted on spot at 7s. 6d. to 8s. 6d. per lb., according to quantity.

**TRAGACANTH.**—Prices of the medium grades are steady as follows: No. 1, white, £130 per cwt.; No. 2, white, £115; No. 3, white, £100; No. 4, white, £85; pale leaf, £60; amber leaf, £40; dark amber, £40; brown leaf, £30; reddish-brown leaf, £25; red leaf, from £20; hoggy, 12 to £15.

**TURMERIC.**—Prices unchanged, business continues quiet. Sound-quality Madras finger, 55s. per cwt., London; 52s. 6d., Liverpool; 50s., Glasgow.

**VALERIAN ROOT.**—Indian root may be had on spot at 105s. per cwt., ex store.

**WAXES.**—**BEES'.**—Supplies may be obtained by through members of the Association of Merchant Distributors of Beeswax; official prices are as follows: Crude, 260s. to 290s. per cwt.; refined, 315s. to 355s.; bleached, 340s. to 370s.; Calcutta, crude, 250s. to 270s.; Calcutta, bleached, 325s. to 335s. **CARNAUBA.**—Light grey, 440s. per cwt., ex store, in minimum one-bag lots; shipment, 390s., c.i.f.; Bahia, 525s. to 540s. per cwt., ex store, nominal; shipment, 475s., c.i.f.; medium yellow, 40s., nominal; chalky grey, 430s., nominal; shipment, 377s. 6d., c.i.f. (c.i.f. prices include 10 per cent. W.R.I.). **CANDELLA.**—Under 1 ton, 220s. per cwt.; 1–5 tons, 217s. 6d.; 5 tons and over, 215s., ex store. **OURICURI.**—Spot, 290s. to 330s. per cwt., according to quality.

## Essential and Expressed Oils

**ANISE (STAR).**—No change in the position. Spot, if available, approximately 150s. per lb.

**BAY.**—Spot would be worth approximately 12s. per lb., if available.

**CINNAMON.**—Leaf oil, if available, would be worth about 13s. 9d. per lb.

**CLOVE.**—English distillers' price is steady at 11s. 6d. to 12s. per lb., according to quantity.

**EUCALYPTUS.**—Spot supplies are meagre. Small quantities would be worth approximately 7s. 6d. per lb.

**GERANIUM.**—Genuine North African oil would be worth about 85s. to 90s. per lb., according to quantity.

**GINGERGRASS.**—Available on spot at about 22s. 6d. per lb.

**NUTMEG.**—English distillers' current quotation is at 35s. per lb., with lower prices for quantities.

**OLIVE.**—Edible oil is priced at 25s. 9d. per gallon of 9 lb., ex store.

**PALMAROSA.**—Spot supplies may be obtained at approximately 55s. per lb.

**PEPPERMINT.**—For any available small supplies, prices as high as 195s. per lb. are being mentioned.

**RAPESEED.**—Bulk supplies are priced at £85 per ton, naked ex works.

**Controlled Essential Oils.**—The following is the current schedule of prices for controlled essential oils. Prices are per lb., for oils delivered to consumer in original packages.

Lemon, cold-pressed	18s. 10½d.
Lemon, distilled	14s. 4d.
Peppermint	36s. 4d.
Grapefruit	18s. 2d. (incl. duty)
Sassafras	11s. 3½d. (plus 1s. duty)
Caraway	20s. 4½d. (plus 1s. duty)
Wormseed	15s. (plus purchase tax where payable)
Cedarwood	3s. 1d. (plus 3d. duty)
Nutmeg	22s. 3d. (plus 2s. duty)
Fennel	11s. 3½d. (plus 1s. duty)
Coriander, Russian	127s. (plus 11s. 6d. duty)

Geranium, Bourbon	25s.
„ (Ministry oil)	24s. 6d.
Orange oil, Jamaica	23s. 6d.
Vetivert	27s. 7d. (plus 3s. 5d. duty)

As noted recently, the price to the user of West Indian distilled LIME OIL has been advanced to 50s. per lb., owing to differences in insurance rates. The figure is a maximum one and may vary.

**The Oxford Vaporiser.**—A specially light type of this apparatus, which is used for emergency anaesthetics in war, and frequently dropped by parachute, is made from waste paper built up in layers impregnated with plastics. Save waste paper.

## TRADE MARKS

(From "The Trade Marks Journal," May 3)

"ISABROMA"; for pharmaceutical preparations of bromine compounds for human use (5).  
 "AUROVIT"; for pharmaceutical preparations, being compounds of gold, for human use in asthma (5). By Clinical Products, Ltd., 2 The Green, Richmond, Surrey. 625,864; 626,990 (Associated).

Device in form of drop of blood bearing two hands holding pipette and incorporating words "Look at the Blood," for pharmaceutical preparations for use in treatment of blood deficiencies (5). By John Wyeth & Brother, Ltd., Oldhill Street, London, N.16. 625,676.

"FLUSA"; for veterinary preparations for colds, catarrh, etc. (5). By Chapman & Son (Grimsby), Ltd., 324-44 Victoria Street, Grimsby. 627,302.

"GRENODINE"; for disinfectants (5). By Clyde Utilities, Ltd., 187 West George Street, Glasgow, C.2. 627,422.

"AVIVA"; for veterinary preparations (5). By J. Donaghy, Church Street, Ballymoney, N. Ireland. 627,425.

"CLEVER NURSIE"; for pharmaceutical preparations for human use (5). By R. E. Eberhardie, 2 Pinner Road, Harrow, Middlesex. 627,528.

"OZLAB"; for pharmaceutical substances for human and veterinary use, sanitary substances, etc., and for weed killers and vermin destroyers (5). By Ozonol Laboratories (1930), Ltd., 7-9 New Wharf Road, King's Cross, London, N.1. 627,582.

(From "The Trade Marks Journal," May 10)

"CIBA"; for all goods (1, 2, 4 and 5). By Society of Chemical Industry in Basle, 141-227 Klybeckstrasse, Basle, Switzerland. 627,810-11-13-14 (All Associated).

"MERLON" in device form; for non-medicated toilet preparations (3) and for skin preparations, eye lotion, mouth-wash, antiseptic ointment and antiseptic spray lotion (5). By Gluvita, Ltd., 17 South Molton Street, London, W.1. 623,368-69 (Associated).

"C. G. TEMPLER," facsimile signature; for paste for razor strops, etc. (3). By C. G. Templer, 109 Bollo Bridge Road, Acton, London, W.3. 626,397 (Associated).

"CROSS KEYS BRAND" on circular device incorporating two crossed keys (3); for non-medicated toilet preparations, etc. (3). By B. Laporte, Ltd., Kingsway, Luton, Beds. 626,711 (Associated).

"CLEESOL"; for preparations for dry cleaning and removing stains from textiles (3). By Chilva Laboratories, Ltd., Russell Chambers, Merrion Street, Leeds, 2. 626,714.

"HASBA"; for non-medicated toilet preparations, etc. (3). By Osborne, Garrett & Co., Ltd., 51-54 Frith Street, London, W.1. 627,482.

"CHICHI"; for perfumes and toilet water (3). By M. Levy, 120 West 42nd Street, New York, U.S.A. 627,561.

## CORRESPONDENCE

### Council Candidates' Thanks

SIR,—May I tender thanks and appreciation to the electors who supported my candidature for the Council. I would also like to offer thanks to the scrutineers.

Yours faithfully,

East Barnet. G. H. ARMITAGE.

SIR,—Would you allow me, through your columns, to thank my supporters in the recent Council election, and to express the hope that those who did not vote for me will have more confidence the next time.

Yours faithfully,

Manchester, 3. W. E. PHILLIPSON.

SIR,—I desire to register my sincere thanks to the 1,404 members of the Pharmaceutical Society who recorded votes in my favour in the recent election. Although unsuccessful I shall continue to take a keen interest in the future problems of pharmacy and offer my good wishes to the democratically elected members of the Council in dealing with the troublesome matters which lie ahead.

Yours faithfully,

Liverpool, 23. JOHN GILMOUR.

### Appreciations

Very many thanks for your prompt reply and the information sent.—S. A. W., Hexham.

I am enclosing my thirtieth annual subscription, and I still look forward to the C. & D. being delivered every Friday morning.—E. D. G. (Leeds, 12).

Many thanks for the booklet received this morning. It was very good of you to take the trouble to procure and send it to me.—M. J. C. (Dungarvan).

I am very grateful to you for your trouble and kindness in sending me the information I required. Hoping I did not put you to too much trouble.—T. J. R. (Dublin).

"C. & D." Quiz No. 29.—The answers to the questions on p. 591 are: 1. A mixture of quinine, cinchonine and cinchonidine. 2. From Hafnia, ancient name of Copenhagen. 3. Fuchsian, 1542, from the resemblance of the flowers to a finger-stall. 4. Montaigne. 5. As *Spongia usta*.—burnt sponge. 6. Stem of *Coccoloba fenestrata* (unofficial). 7. Contains no diosphenol, active principle of the short buchu. 8. Georges Urbain, 1907—chemist, painter, composer, sculptor. 9. Cinnamon, then very scarce and costly. 10. The South African name for Cannabis Indica.



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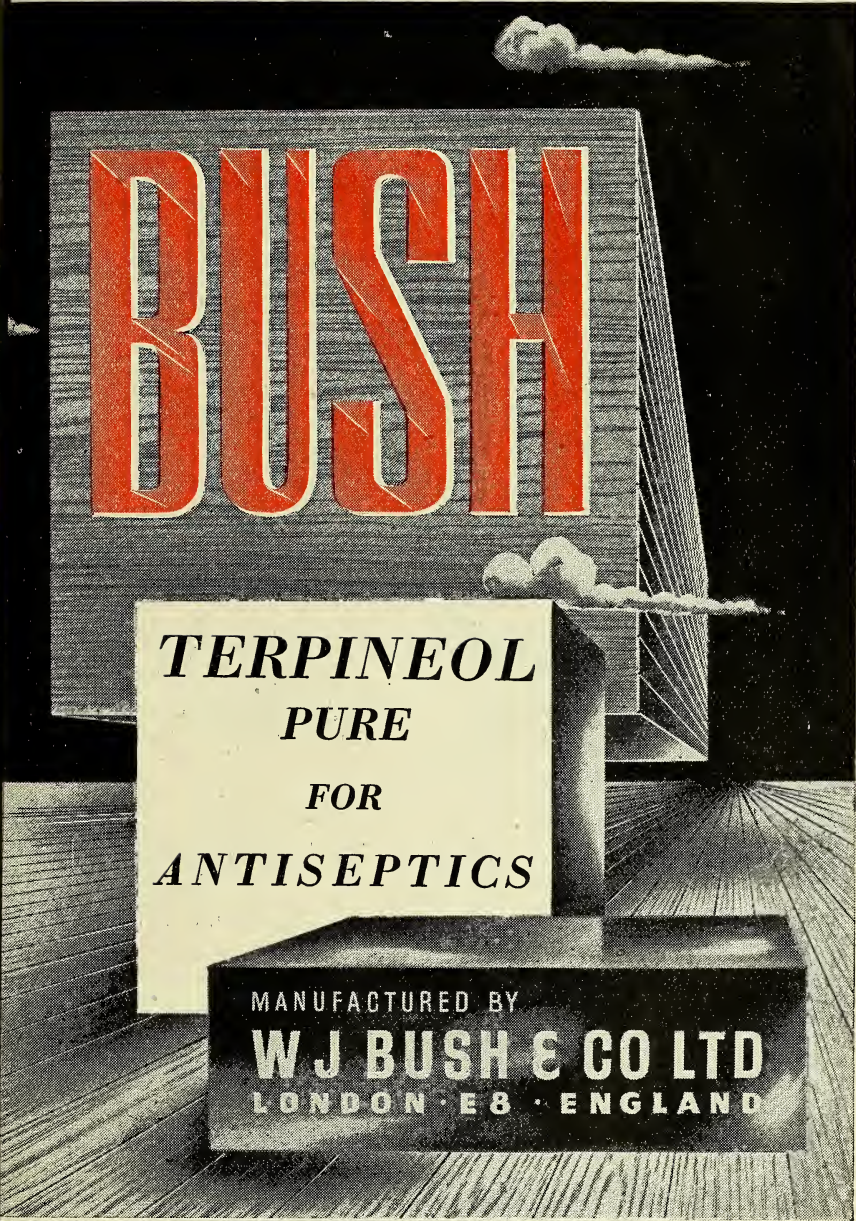
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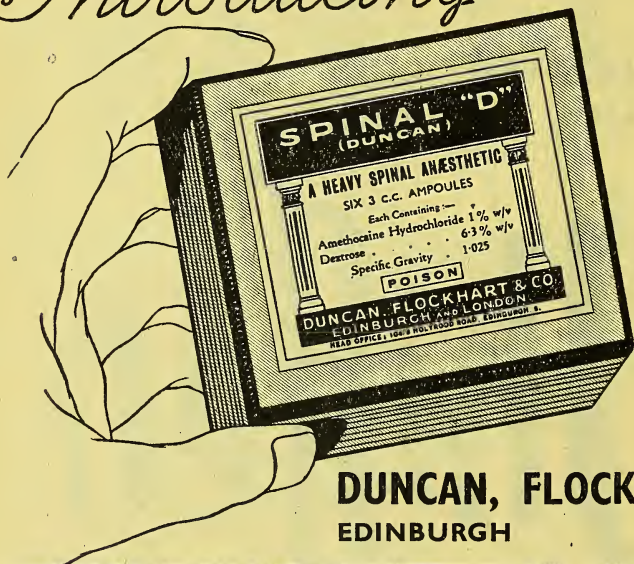
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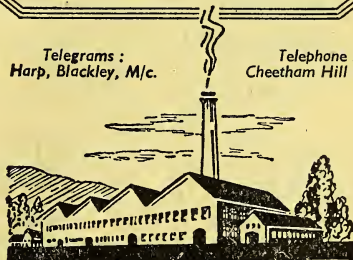
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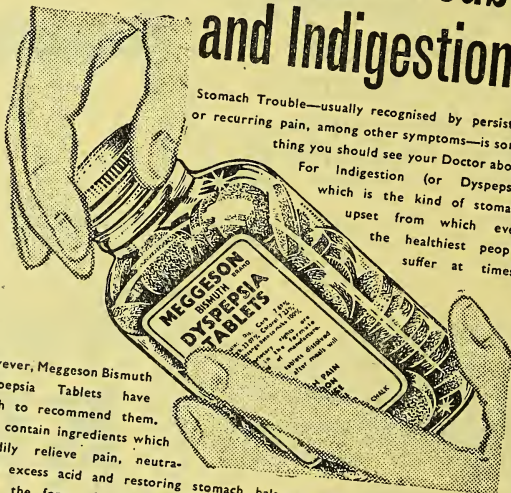
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## What is the difference between Stomach Trouble and Indigestion?



Stomach Trouble—usually recognised by persistent or recurring pain, among other symptoms—is something you should see your Doctor about. For Indigestion (or Dyspepsia) which is the kind of stomach upset from which even the healthiest people suffer at times,

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# The CHEMIST AND DRUGGIST

## SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

JUNE 3  
1944

28 ESSEX STREET, LONDON, W.C.2

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**IE Trade Marks Records** No.536210 registered in respect of hypodermic syringes and Surgical No. 564544 registered in respect of instruments, apparatus, and contrivances, not medicinal, for surgical or curative purposes, or in connection to the health of men or animals except made of knitted elastic fabric and like goods, were assigned on April 24, 1944, by Surgical Equipment, Ltd., of Westfields Road, Western Avenue, Acton, London, W.3, to Surgical Equipment Supplies, Ltd., of the same address, with the goodwill of the business in which they were then in use.

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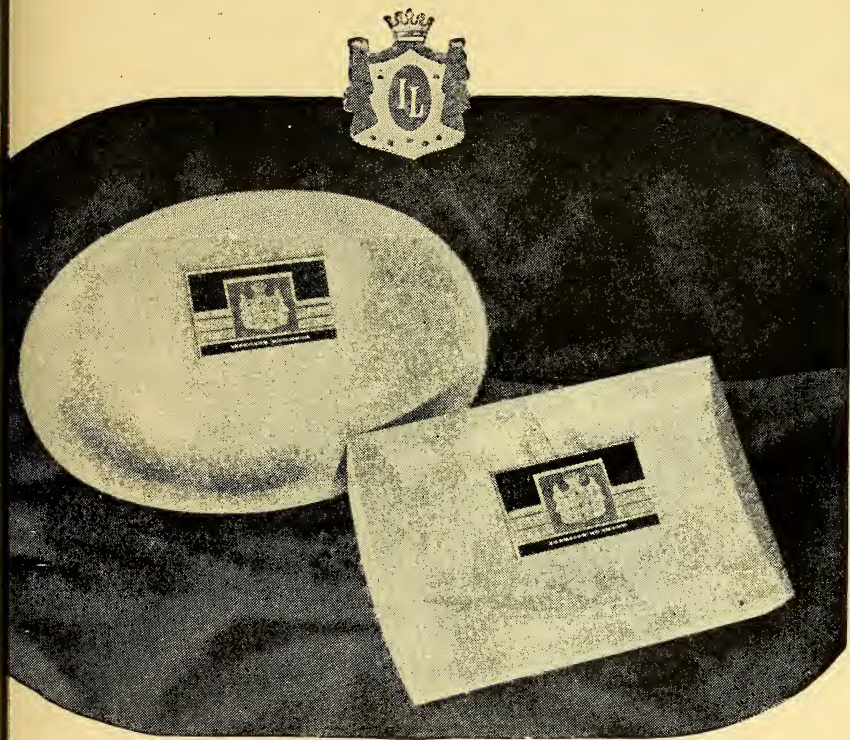
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